

Radio

# AMATEUR

Call Book Magazine

**\$1.50**

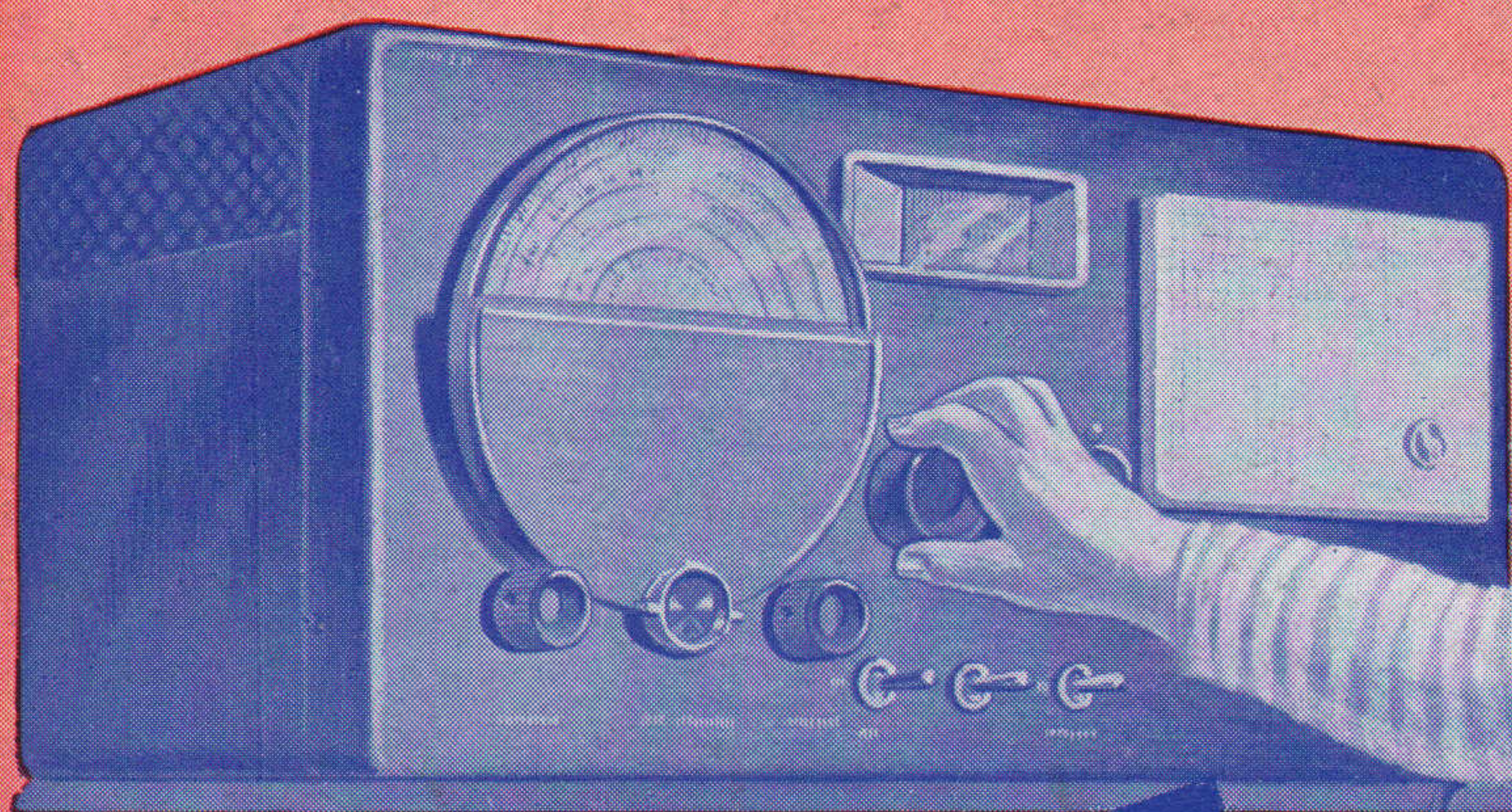
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**FALL, 1947**





what's the a-b-c  
of a cq?



First thing a ham learns—and none too soon—is that his equipment must be *dependable*. And the first capacitor name he learns for *proven* dependability is naturally . . . CORNELL-DUBILIER, the world's finest. No other make enjoys such wide confidence among hams from W1 to WØ . . . for *extra* performance, *absolute* reliability, and *dollar-for-dollar* savings. Old timers and novice CQ's, too, tell us why they wouldn't swap a good C-D capacitor for a bucket-full of bargain counter "specials" or "all-purpose-war-surplus." They know that every C-D they buy will fit perfectly, and give every penny of service they pay for.

So why take chances? Buy A Better Capacitor with C-D—to be safe, to be sure, to be ahead.

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1910



1947



TYPE 9

Mica types for power amplifiers and low-power transmitters. Best used for grid and plate blocking and r.f. by-pass functions.



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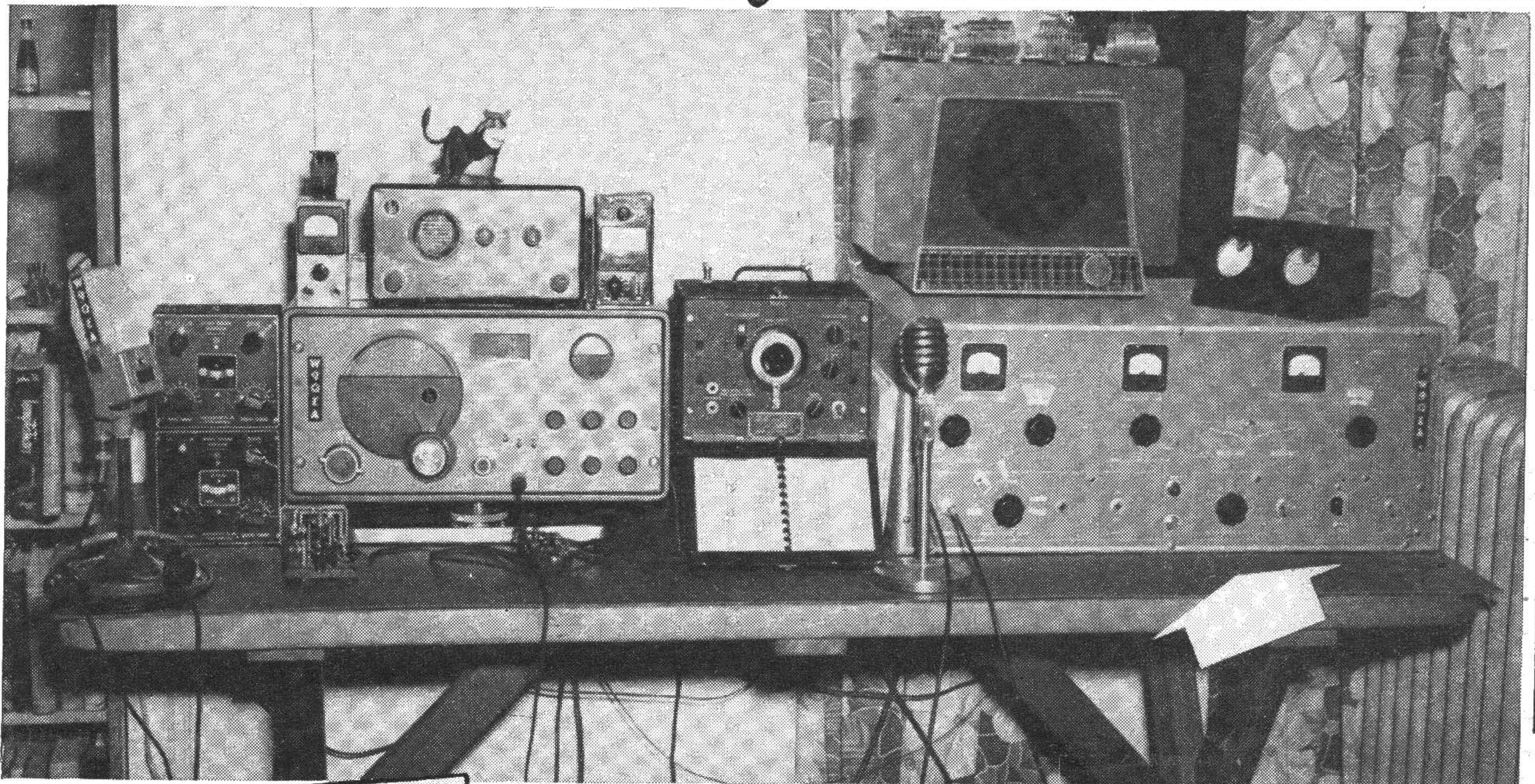
Write today for your FREE copy of Catalog 195A describing dependable C-D capacitors for every ham rig and budget. Send a penny postcard to: Cornell-Dubilier Electric Corp., Dept. JH, South Plainfield, N. J.



# Q5, R9+, T9X...

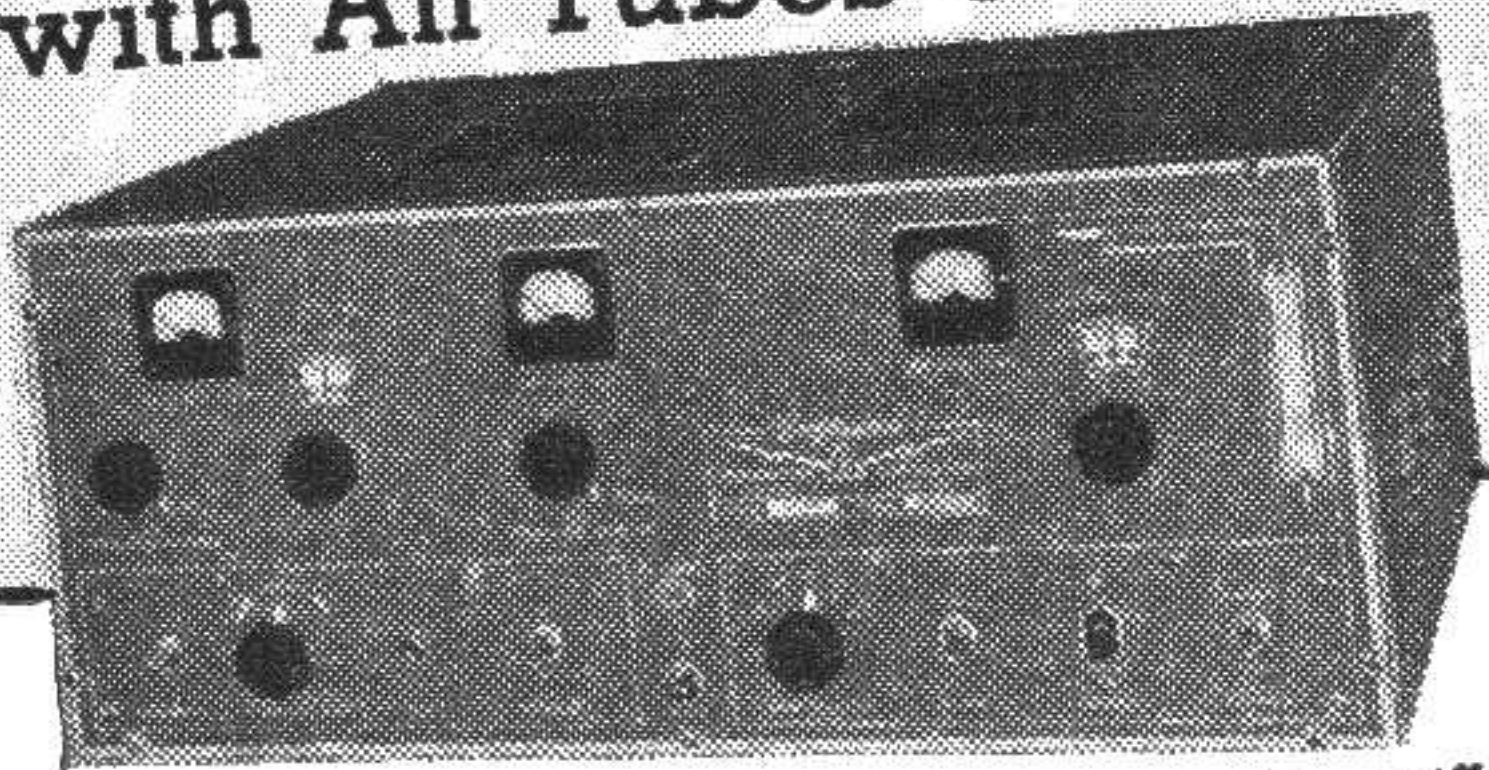
## THAT'S YOUR SCORE ON QSO'S

### WITH THE *Supreme* AF-100



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ANYWHERE... AT  
ANY PRICE!!!**

AM, FM, CW and ICW  
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only \$550 complete  
with All Tubes & Coils



*"The World at your Call"*

Typical Supreme AF-100 installation—W9QEA rig of Karl Kopetzky, noted radio editor, writer and technician, Chicago. This compact, neat, desk-type transmitter fits anywhere yet does a giant job.

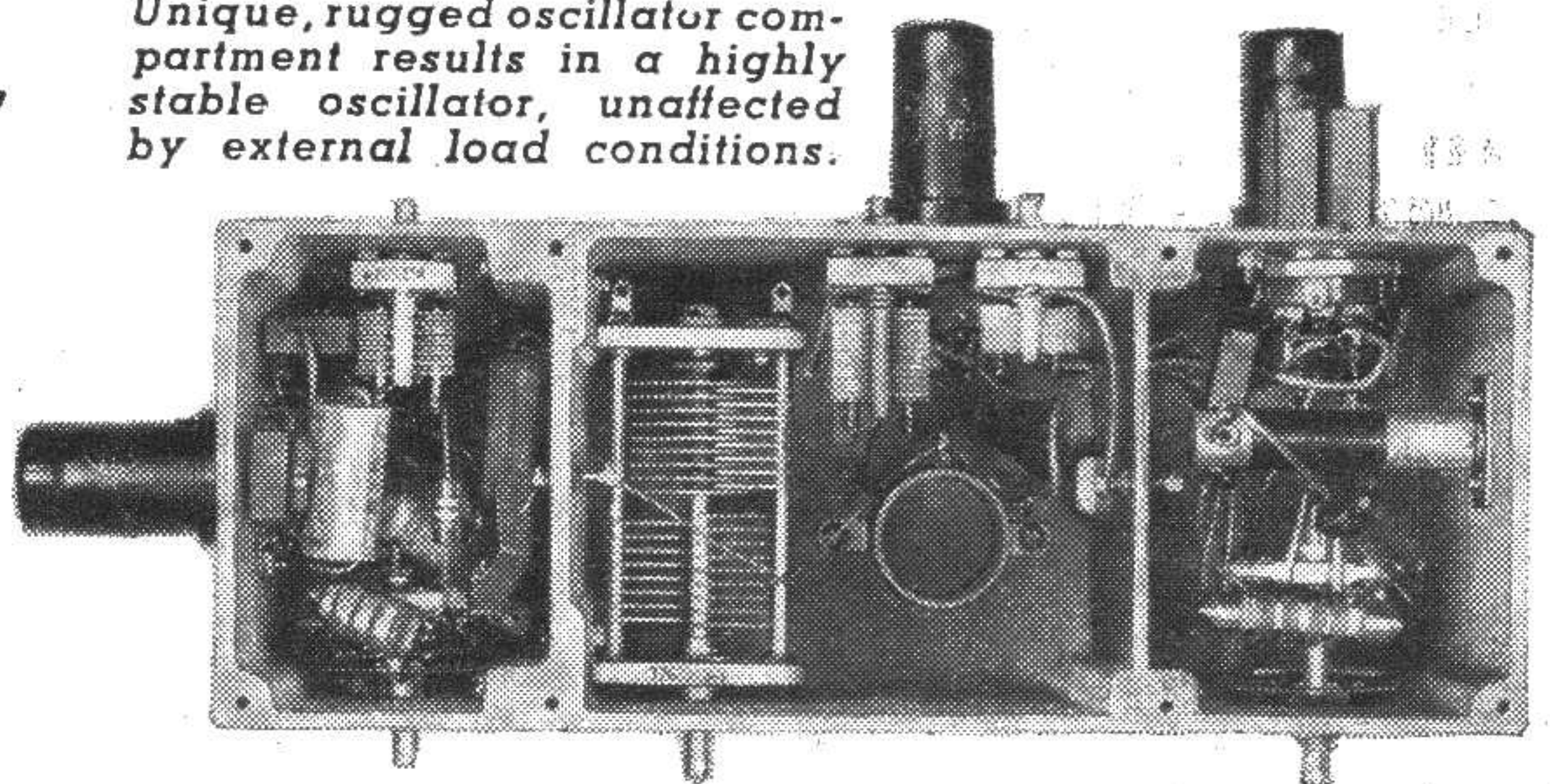


From all over the country—and from abroad as well—come enthusiastic reports on the performance of the Supreme AF-100 transmitter. Just listen to those Supremes now on the air! Listen to them on 10, 11, 15, 20, 40 and 80 meters! They pack a terrific wallop—one matched only by other transmitters of much higher power ratings. And because of the extreme versatility of the AF-100—ready for any frequency allocation changes that may come along—these Supremes will be on the air for many years to come. There's no better "buy" today. Make us prove it!

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Ask your live-wire distributor to show you the Supreme AF-100. Study its many fine features at first hand. Ask for descriptive literature. Or write us.

Unique, rugged oscillator compartment results in a highly stable oscillator, unaffected by external load conditions.



# Supreme

## TRANSMITTER CORPORATION

Manufacturers of Communications Equipment  
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*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



# RADIO AMATEUR CALL BOOK

## MAGAZINE

If you hold two separate radio amateur station licenses, be sure and advise us giving the call letters, address and the date that each license was issued. This information may prevent one of your calls from being deleted from the Call-book through error.

You may receive a questionnaire from us asking for all of your ex-calls and your full name, including your middle name. This information is desired for identification purposes only so that your call will not be confused with another radio amateur having the same last name.

The Editor.

VOLUME 25

NUMBER 3

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**RADIO AMATEUR CALL BOOK**  
(INCORPORATED)

608 South Dearborn Street  
CHICAGO 5, ILLINOIS, U.S.A.  
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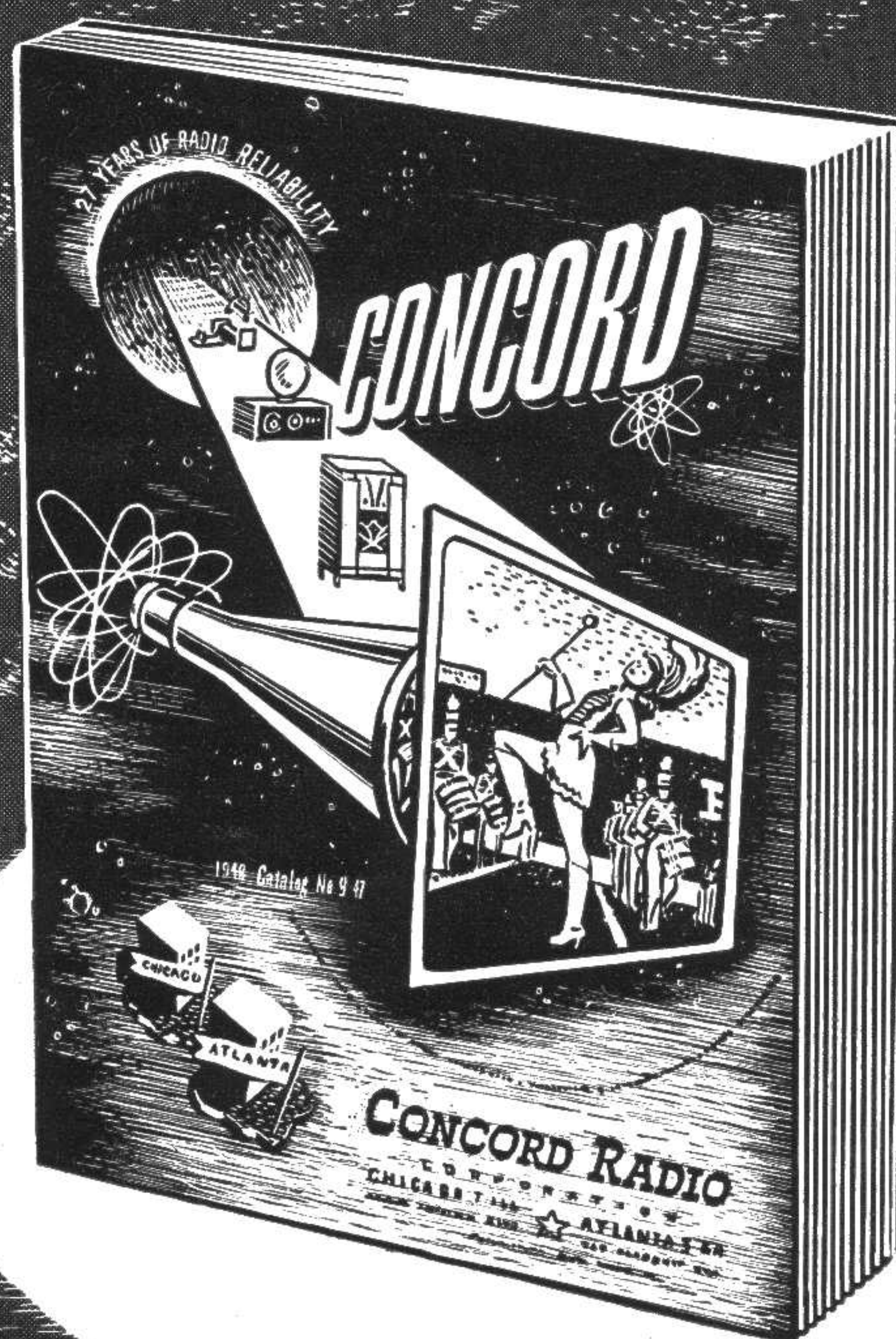


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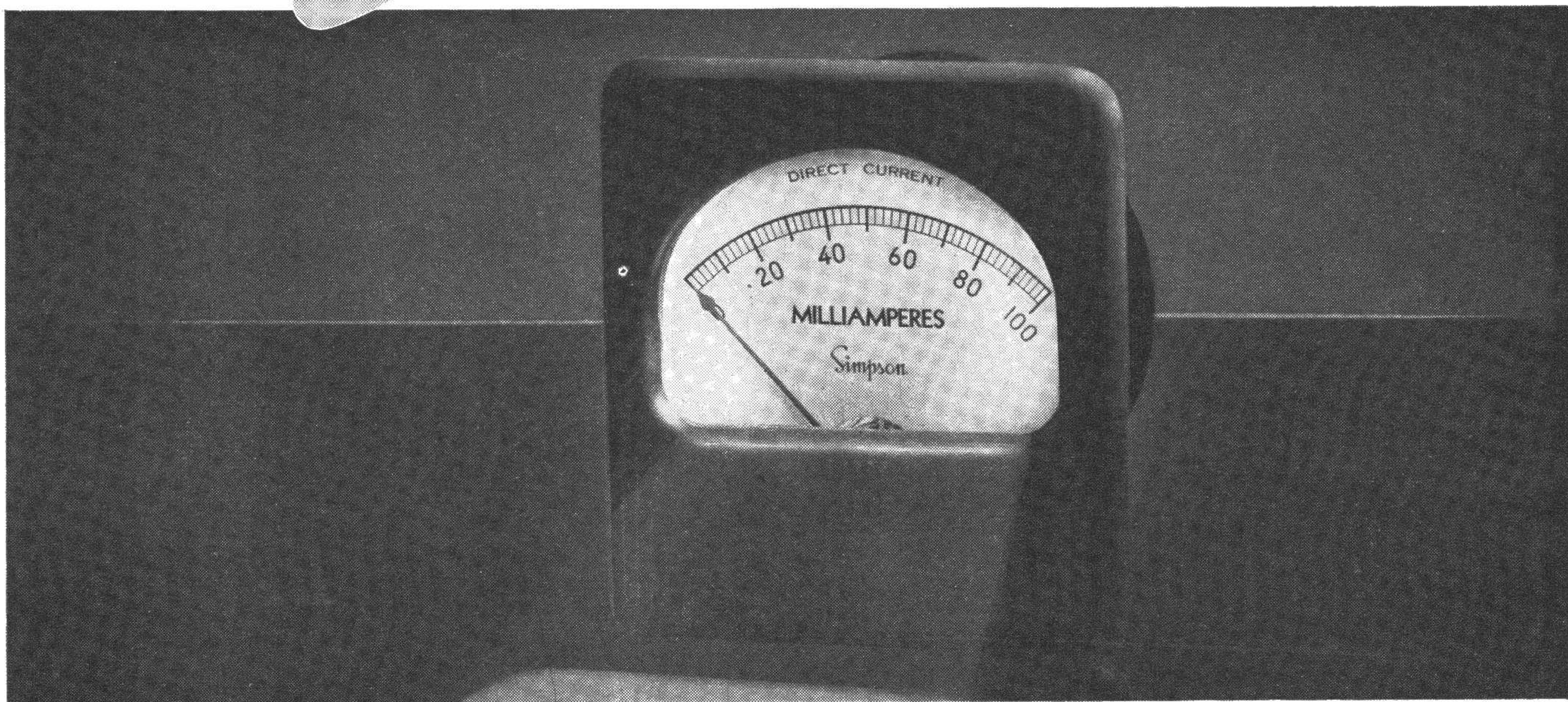
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----- *not through it!*



This kind of meter illumination is important to you—and only in Simpson Meters can you get it because it is Simpson patented.

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Of course, no method of illumination alone should make you buy a certain meter. We offer this new and different illumination merely as a refinement on the basic goodness that makes Simpson meters preferred. It is just another contribution to the high quality which is the indispensable component of every Simpson instrument.

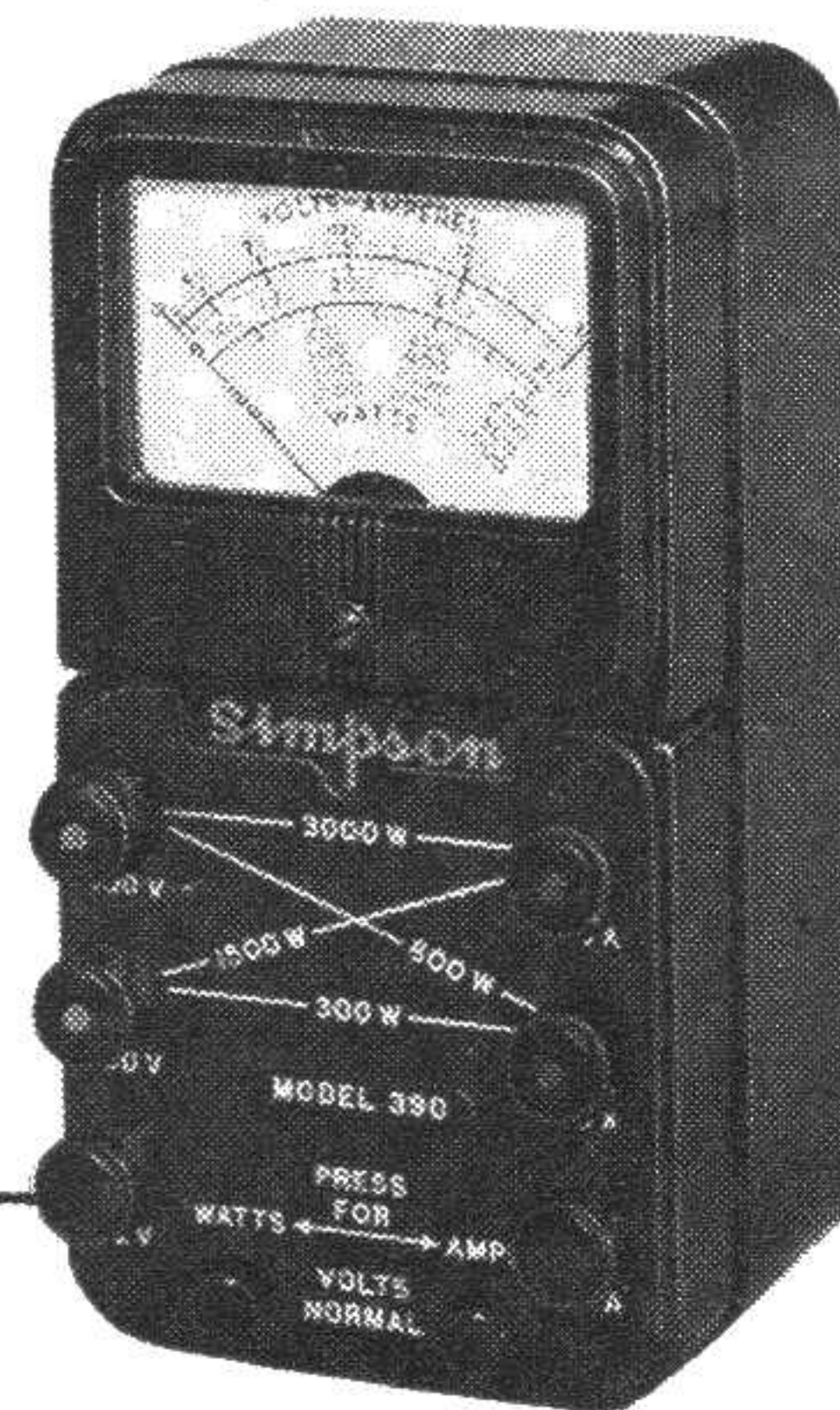
## ASK YOUR JOBBER

3" Rectangular Case. Width, 3"; height, 3 1/8". Mounts in round hole. Body diameter, 2 3/4".  
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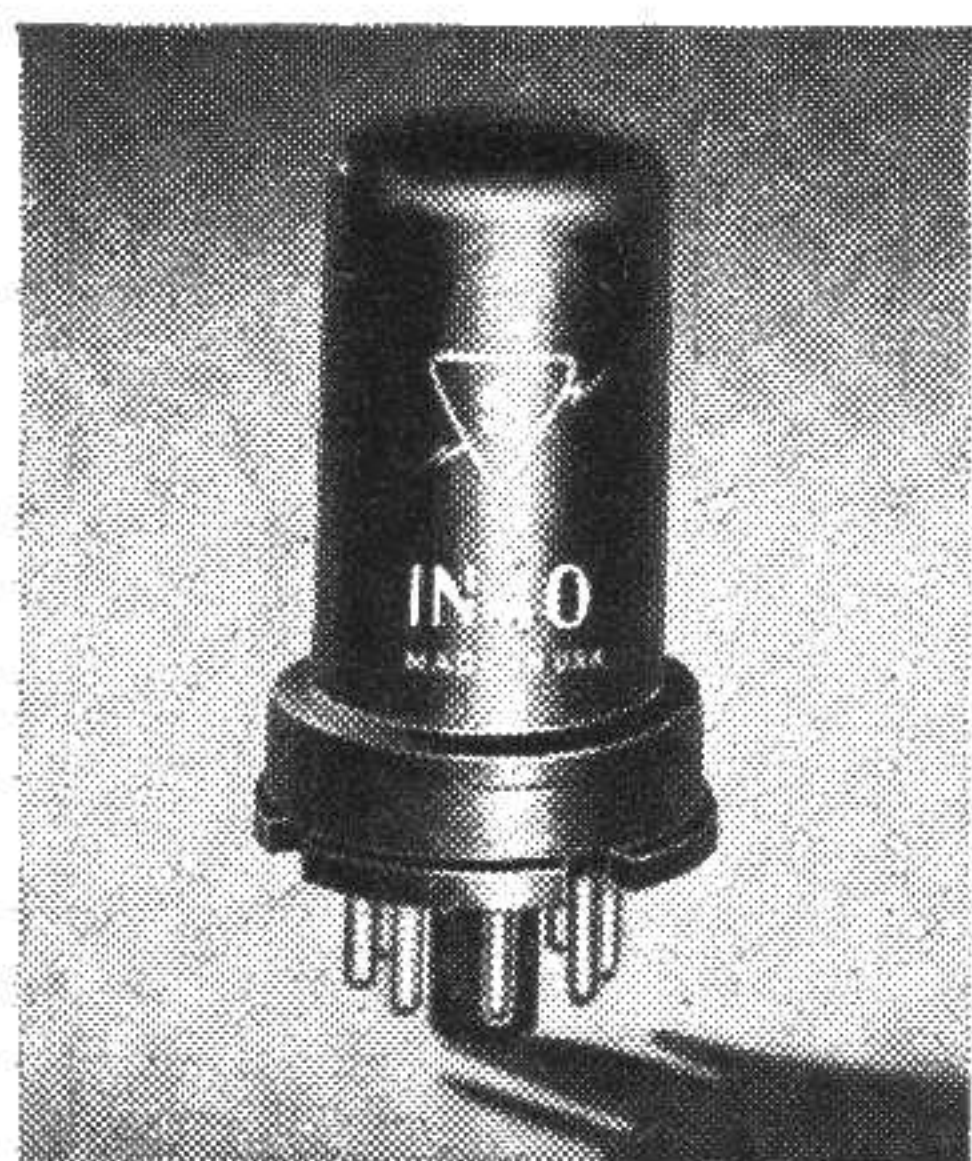
Write for Descriptive Booklet

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# HAMS... HERE ARE SOME SYLVANIA PRODUCTS OF INTEREST TO YOU

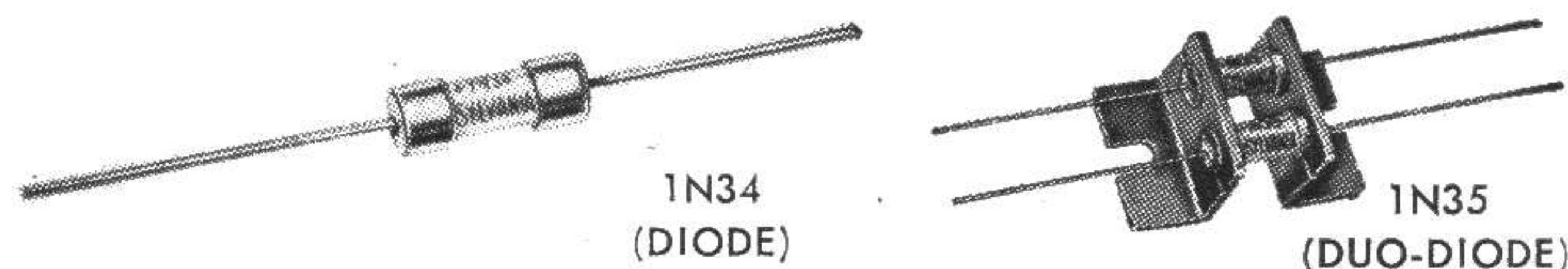
## CRYSTAL DIODE VARISTOR (1N40)



The 1N40 consists of four specially matched germanium crystal diodes (similar to the familiar Sylvania 1N34) carefully selected and balanced, and factory-assembled into a single compact unit.

Point contact utilized in the germanium crystal diodes reduces capacitance to the order of a few  $\mu\text{pF}$ . As a result, the useful frequency range is greatly extended. Stability is improved, and the contact potential effects occurring in vacuum diodes are practically eliminated.

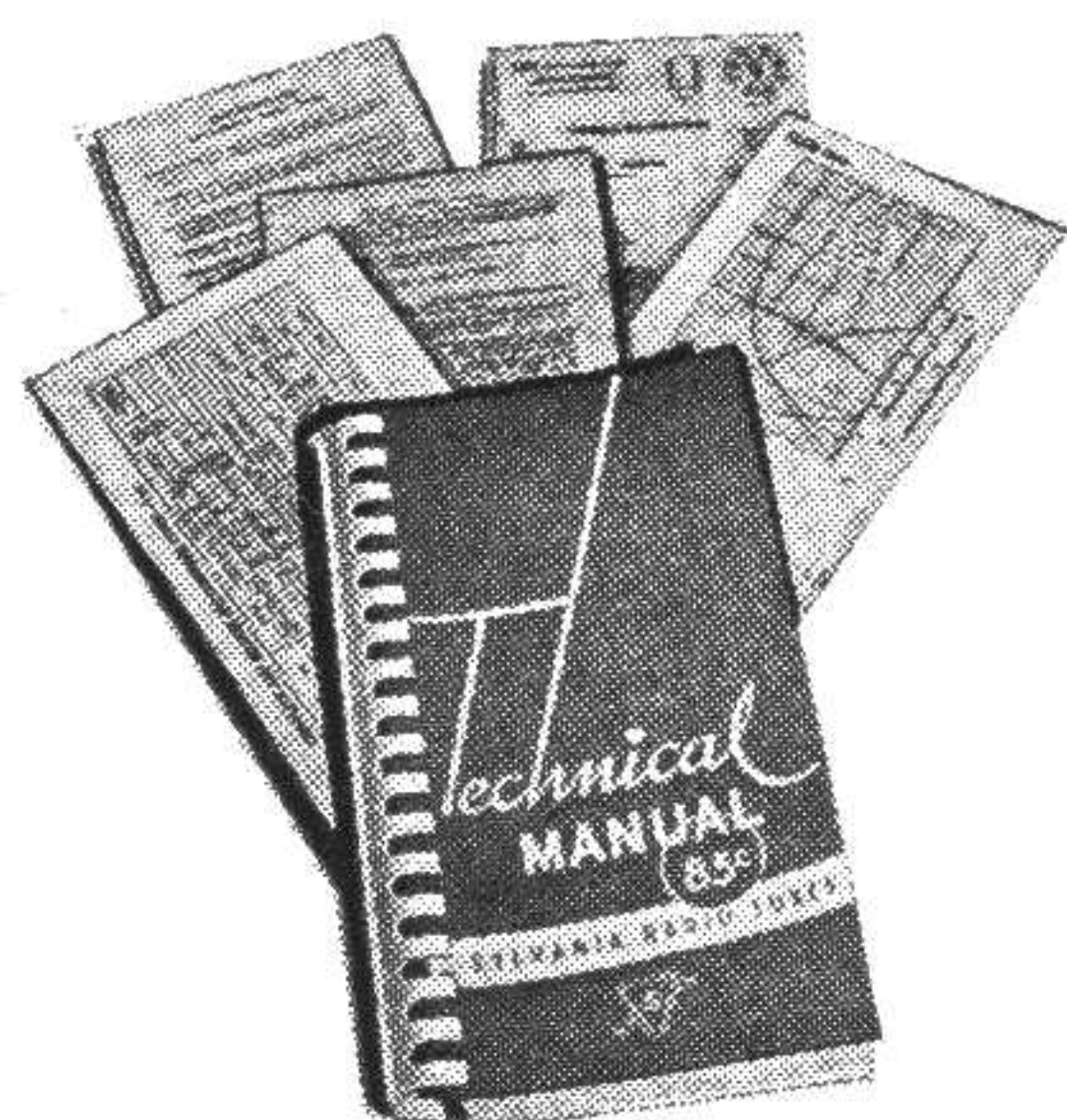
## GERMANIUM CRYSTALS



1. Small size.
2. Eliminates heater supply and possible source of hum.
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The 1N34 and 1N35 are ideal for use in lightweight and portable equipment. Fields of application include: field strength meters, detectors, clippers, discriminators, series noise limiters, demodulators, meter rectifiers.

## TECHNICAL MANUAL



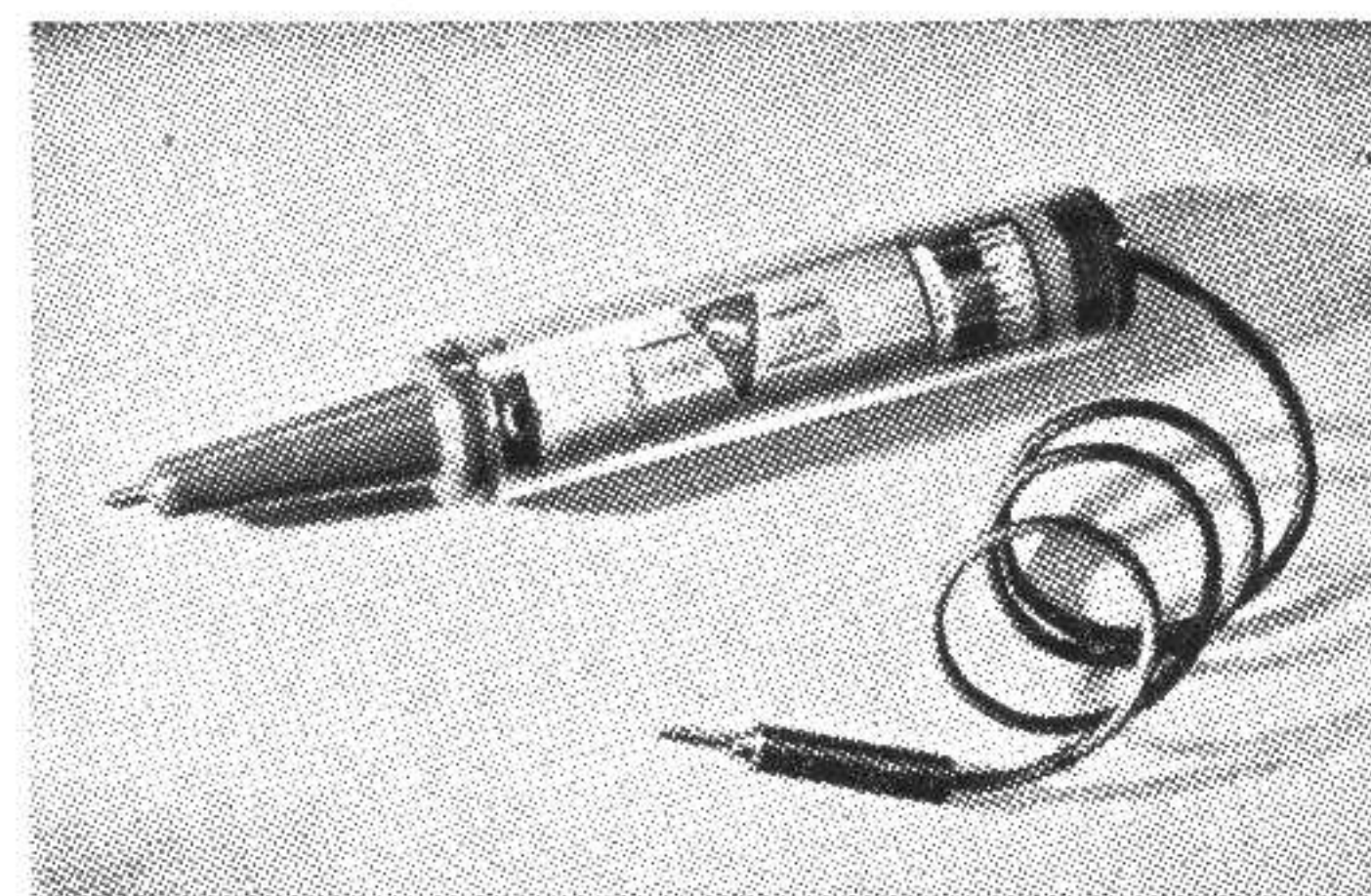
You'll surely welcome this handy reference manual, with its important features including: Fundamental Properties of Vacuum Tubes; The Characteristic Curves; General Tube and Circuit Information; Resistance Coupled Amplifier Data—and many more. We

urge you to get your copy right away—because we know you'll find this volume invaluable.

## TEST PROD OHMMETER

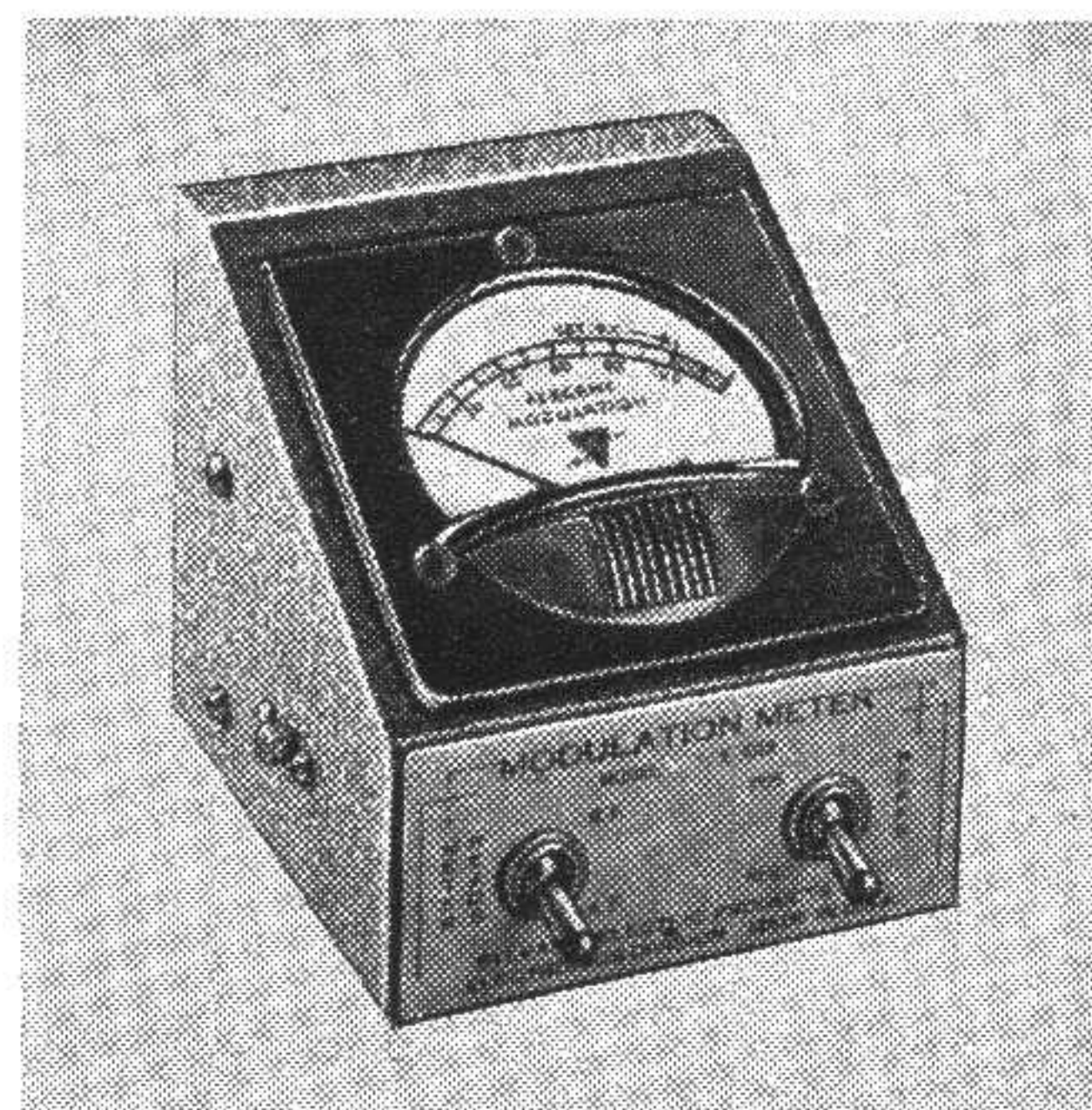
With the Sylvania Pocket Test Prod Ohmmeter in your tool kit, you can locate shorts or open circuits in a jiffy!

This handy-size meter gives direct readings of resistance from 600 to 10,000 ohms... reaches easily into hard-to-get-at corners and awkward spots. Completely self-contained—powered by 1.5 volt "penlight" battery. Only 5 $\frac{3}{4}$ " long,  $\frac{7}{8}$ " diameter.



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(Model X-7018)



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See your Sylvania Distributor or order from Sylvania Electric Products Inc., 500 Fifth Ave., New York 18, N. Y.

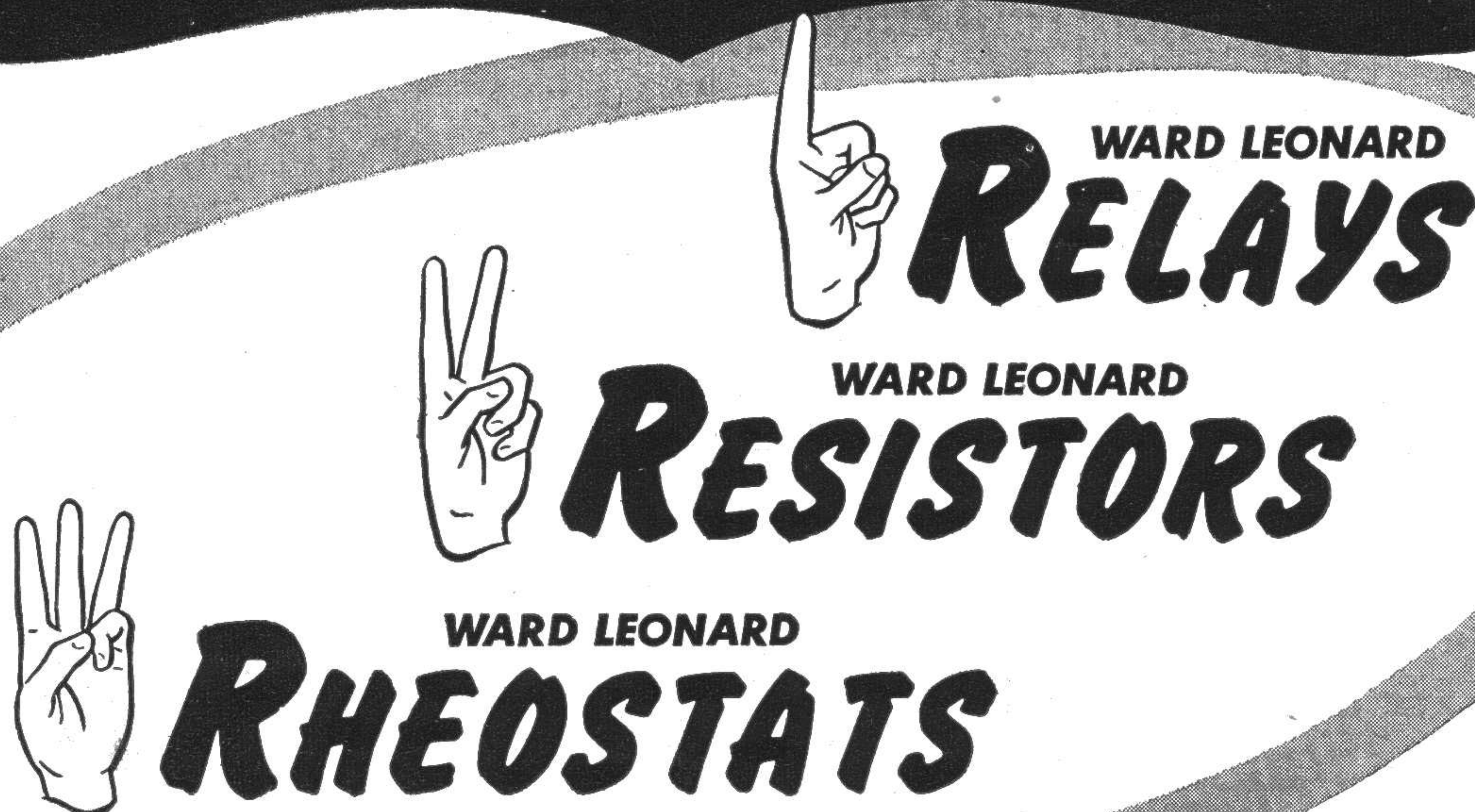
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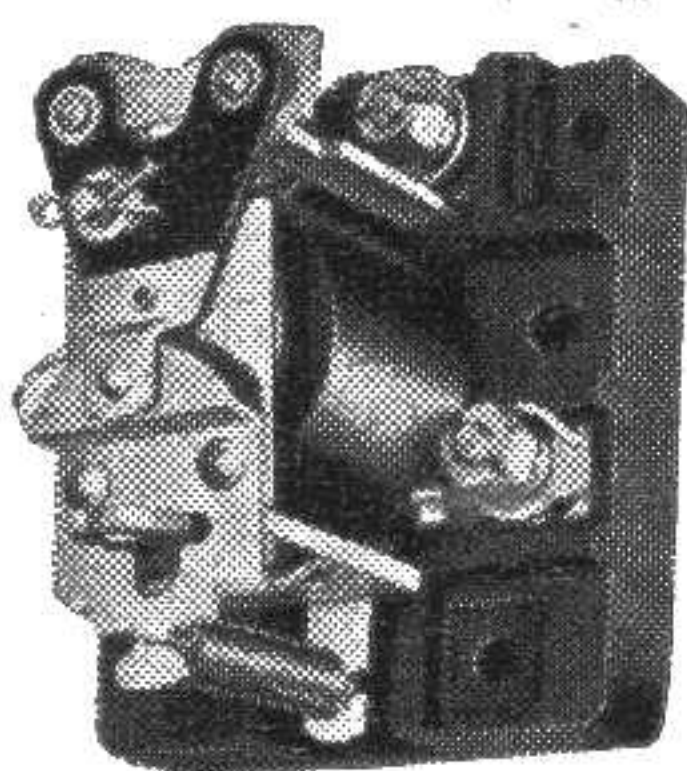
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# Ward Leonard 3 R's are Basic for CORRECT CURRENT CONTROL



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and D-111

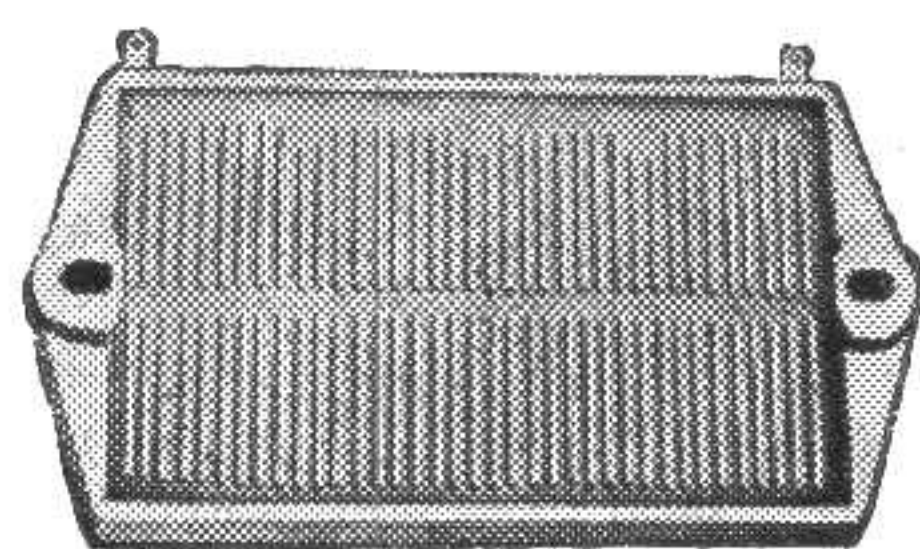


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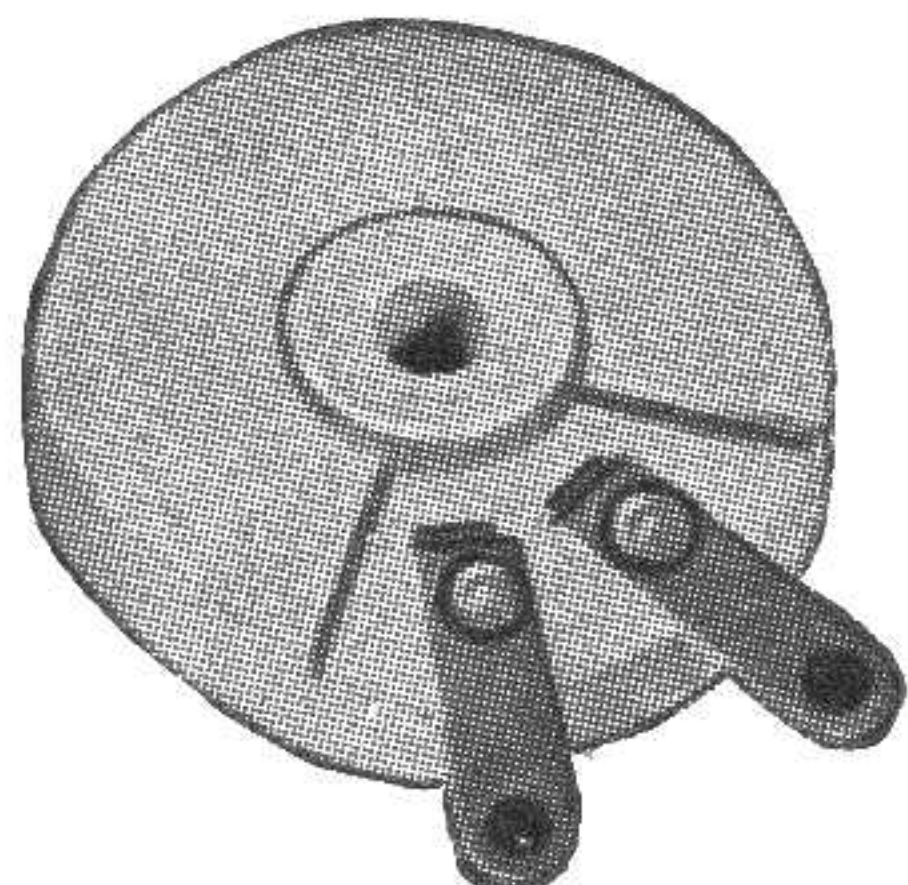
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Automatic control and protection, in one compact panel, for low, medium, and high power ham rigs. In kit form or completely wired and assembled. Locates on one panel all the control functions necessary to go on the air. Protects against overloads and power failures. Finger tip control of filament and plate supply. Write for Bulletin No. D-12.



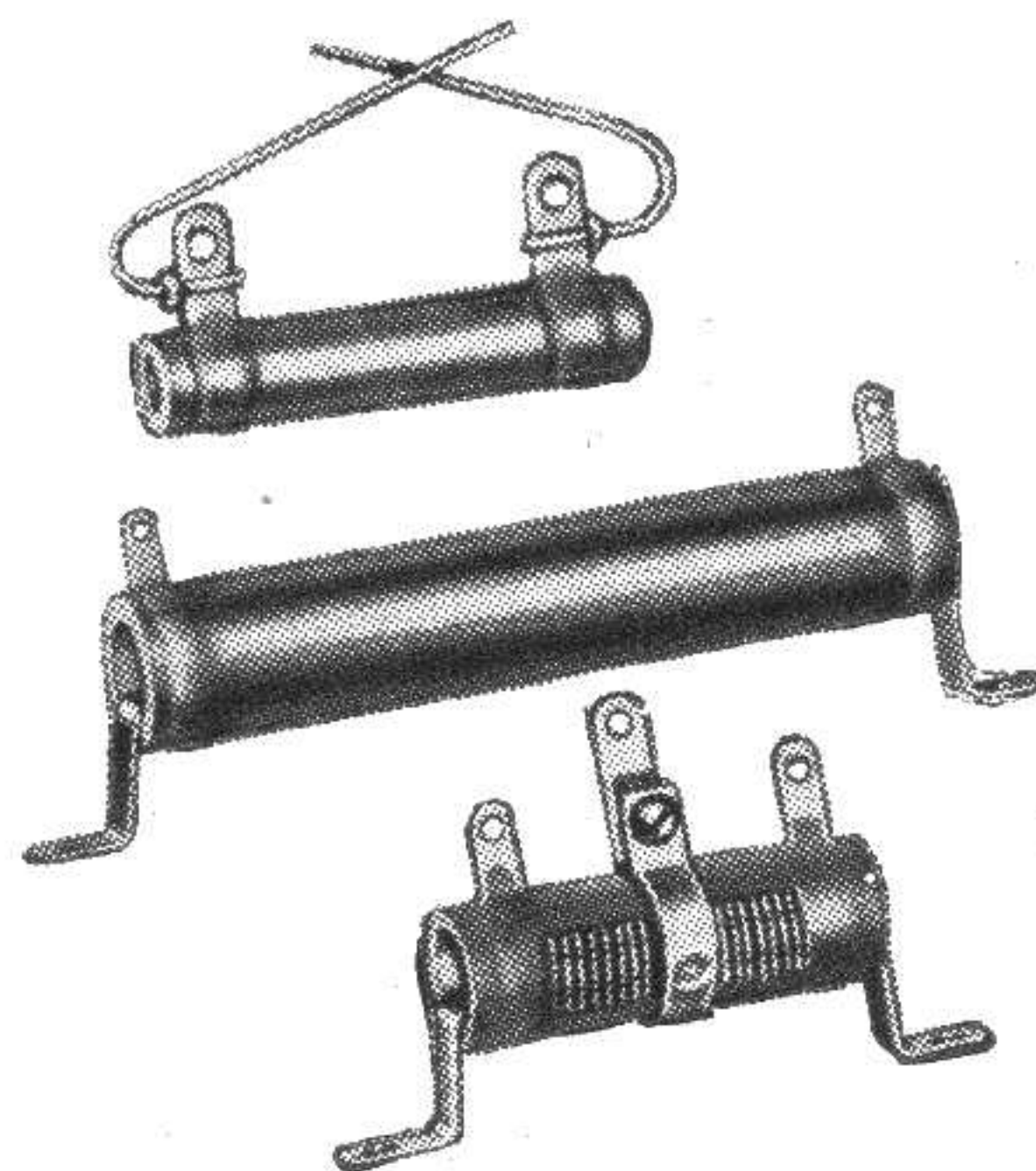
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Inductance at frequencies up to 1 MC and distributed capacitance up to 5 MC are negligible. Effective as terminating resistors for Rhombic antennas. In 20, 40 and 125 watt sizes, with a wide range of resistances.



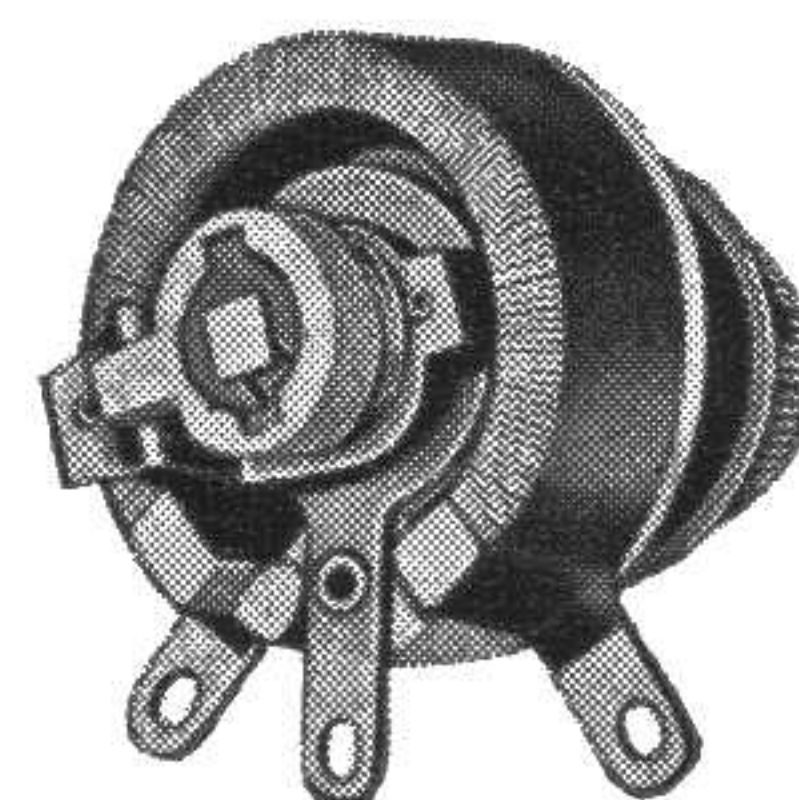
## DISCOHM RESISTORS

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Electric control  devices since 1892

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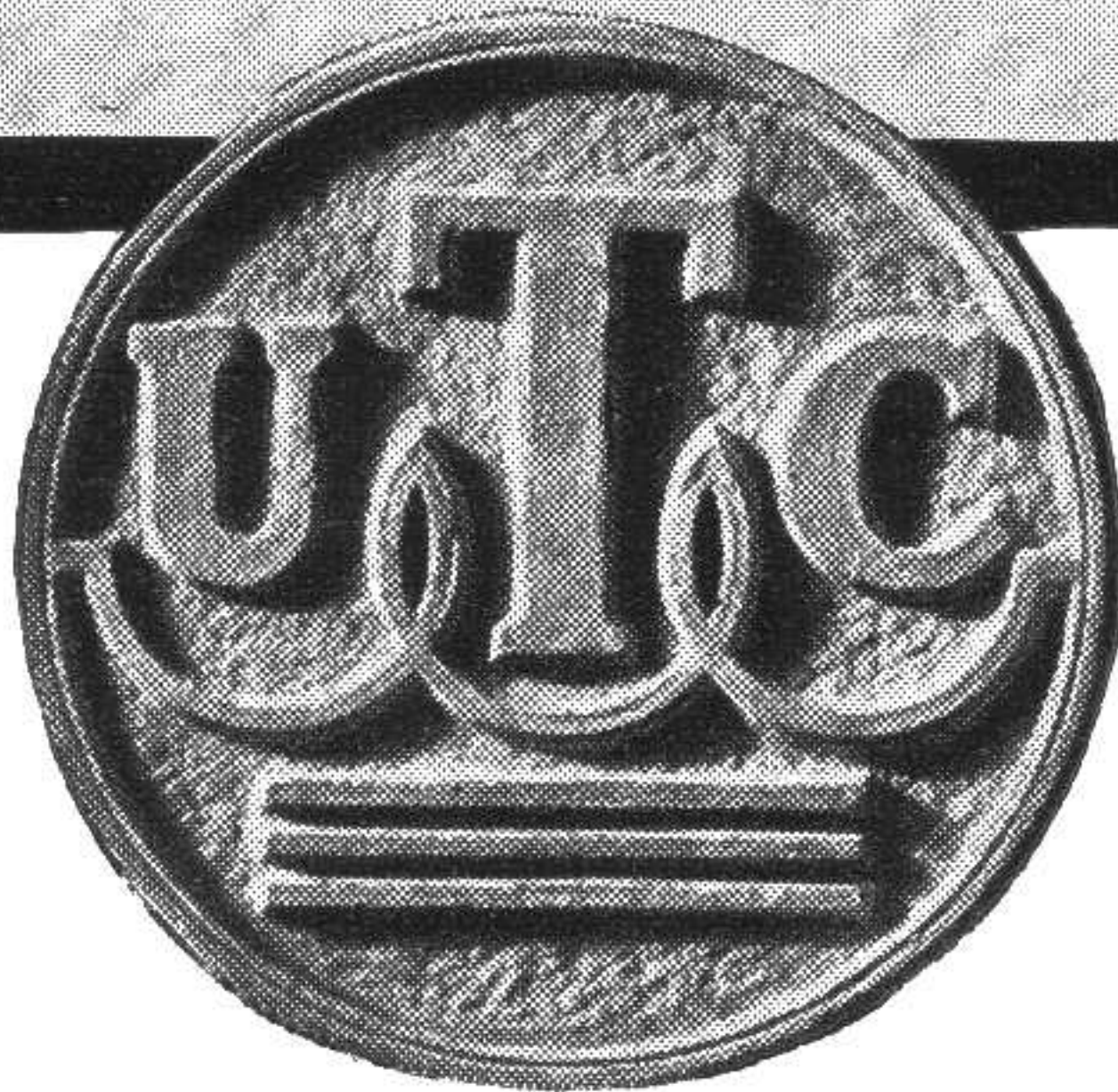
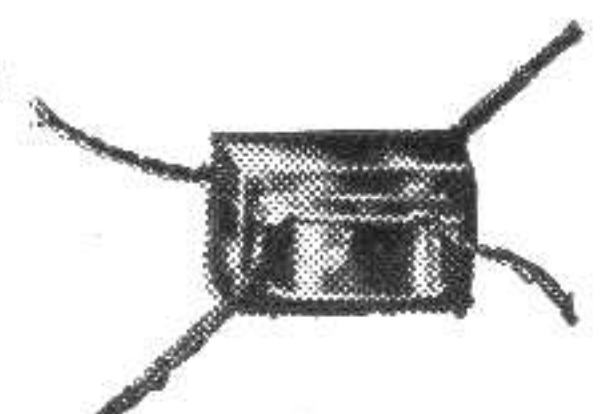
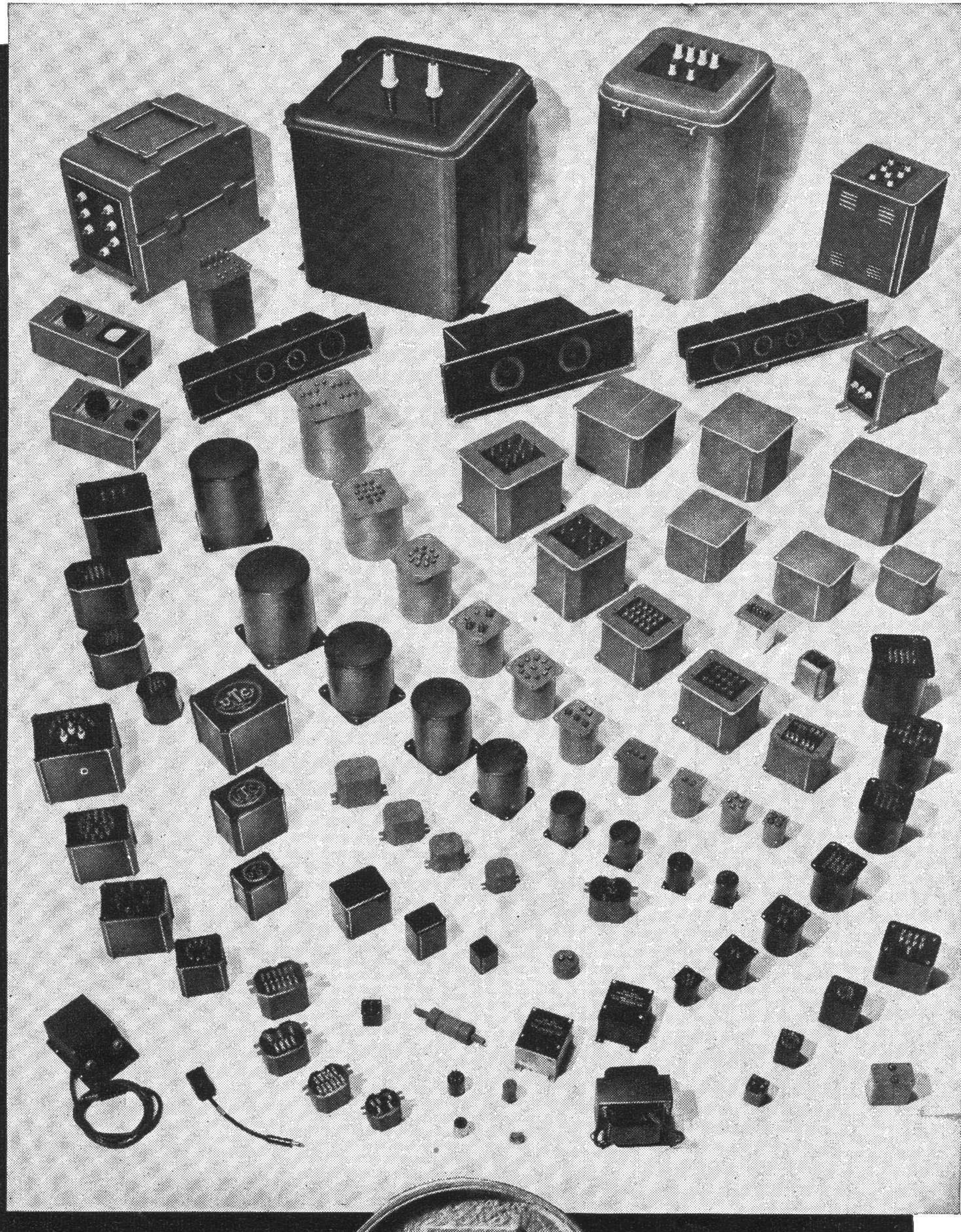
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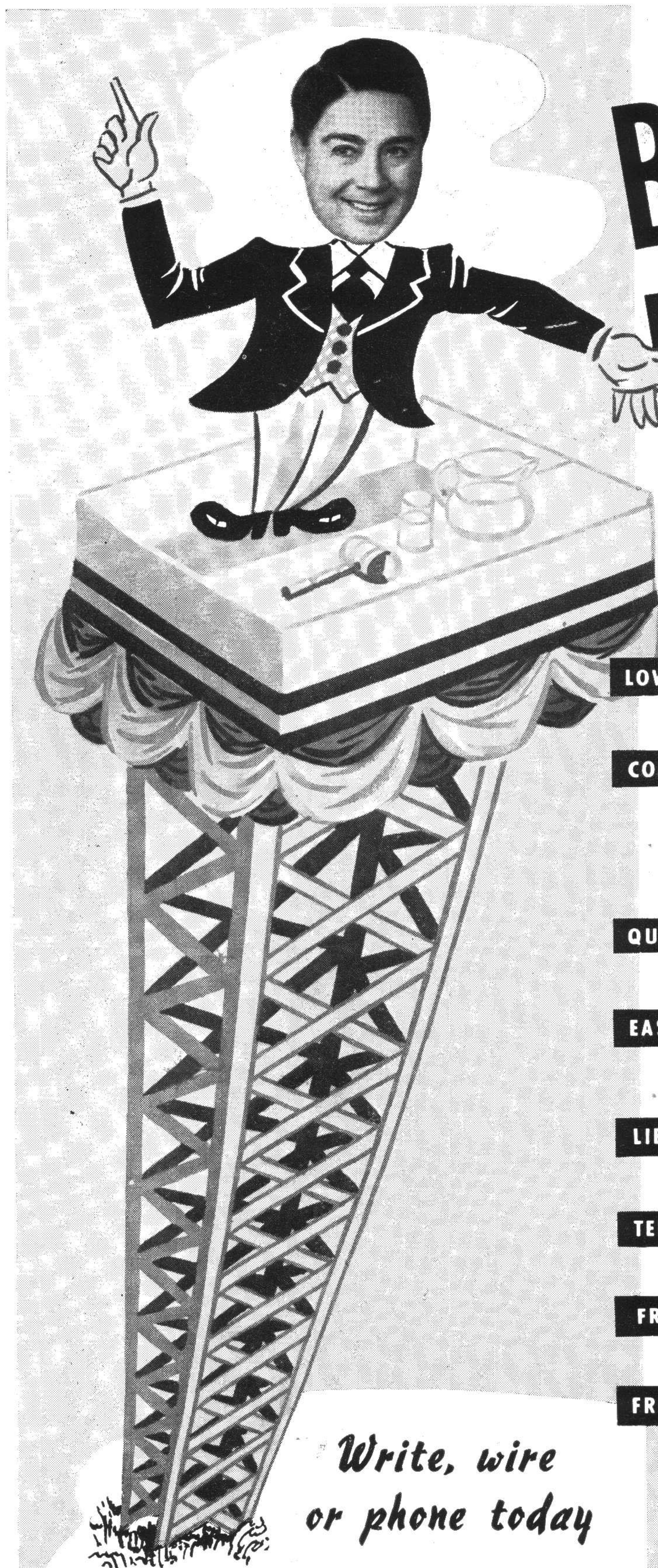
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or phone today*

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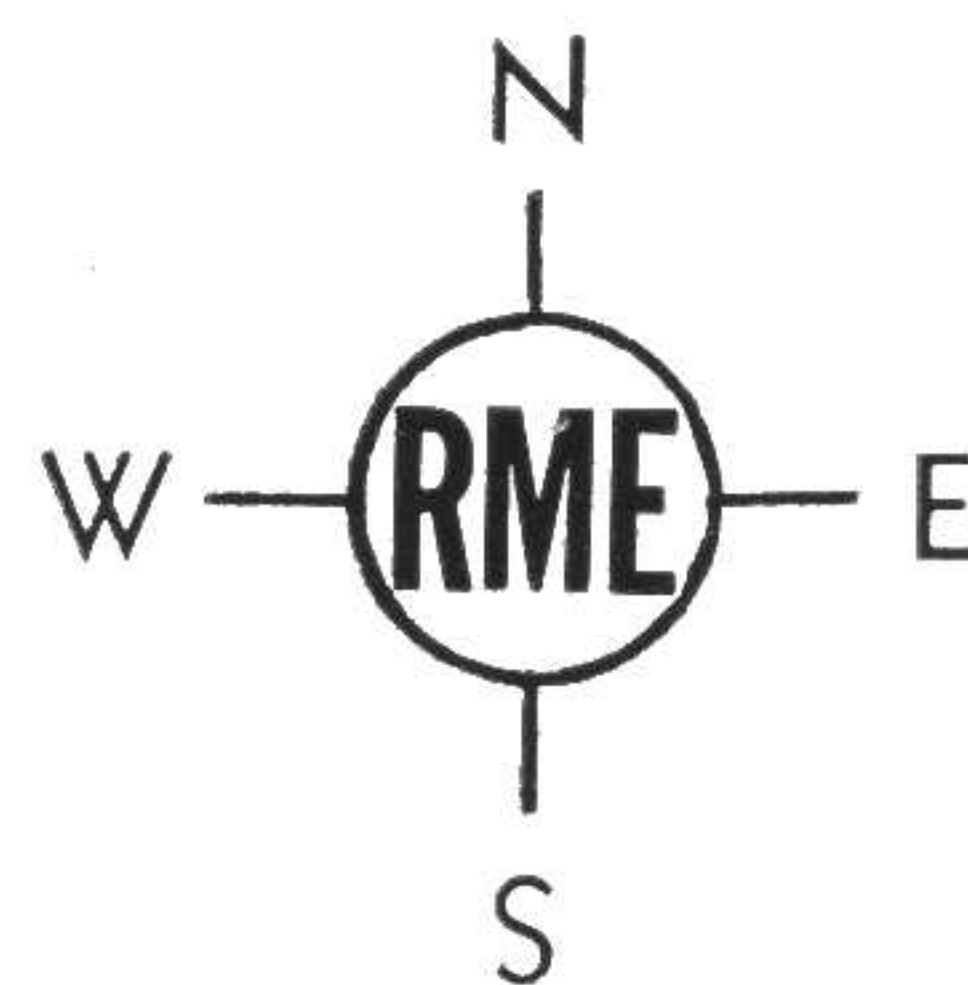
"WORLD'S LARGEST DISTRIBUTORS OF SHORT WAVE RECEIVERS"

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# FOR AMATEURS

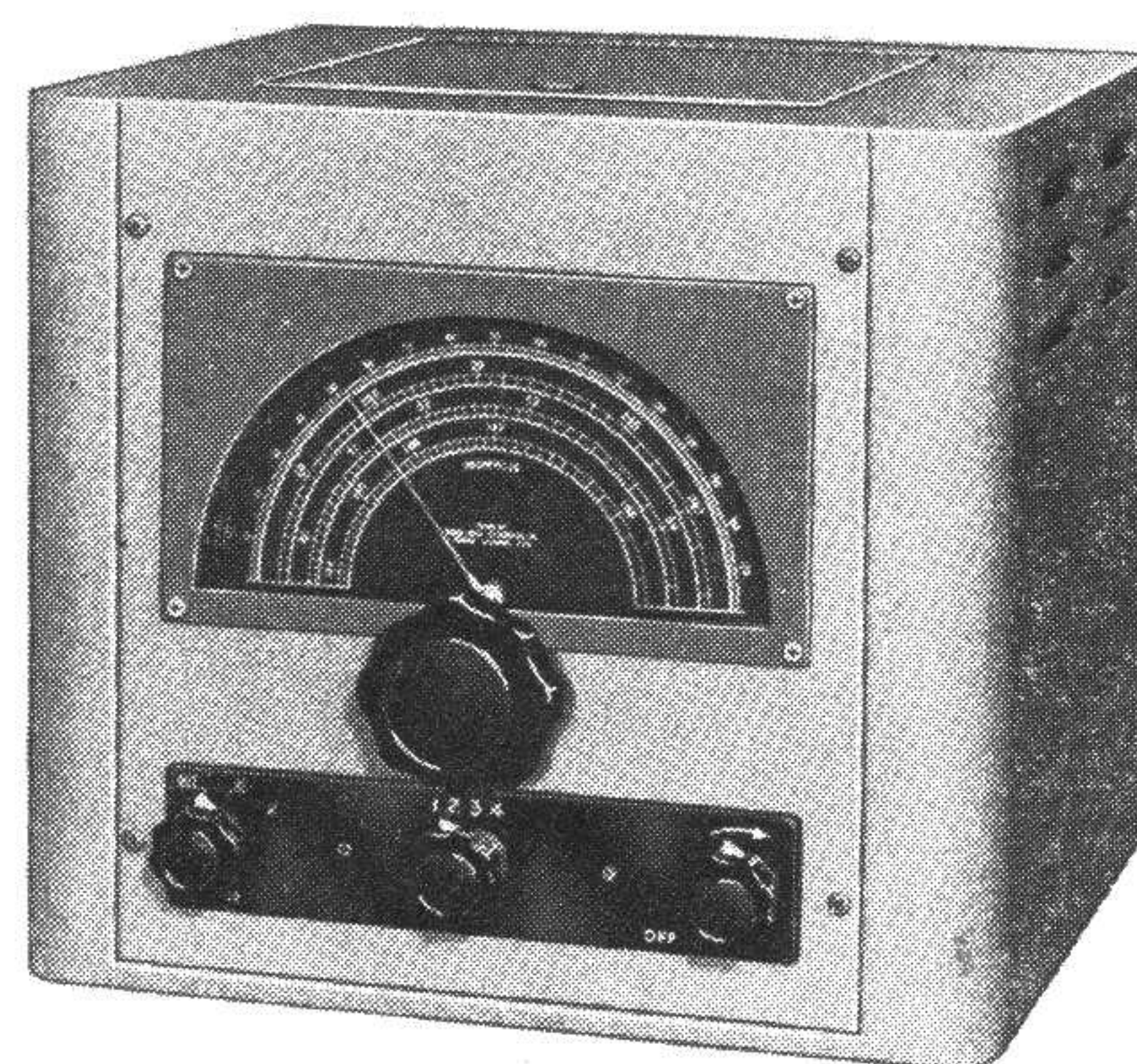
## WITH PROFESSIONAL TASTES



### *The New DB22A Preselector*

Coverage .54 to 44 Mc. — Average Gain 30 DB

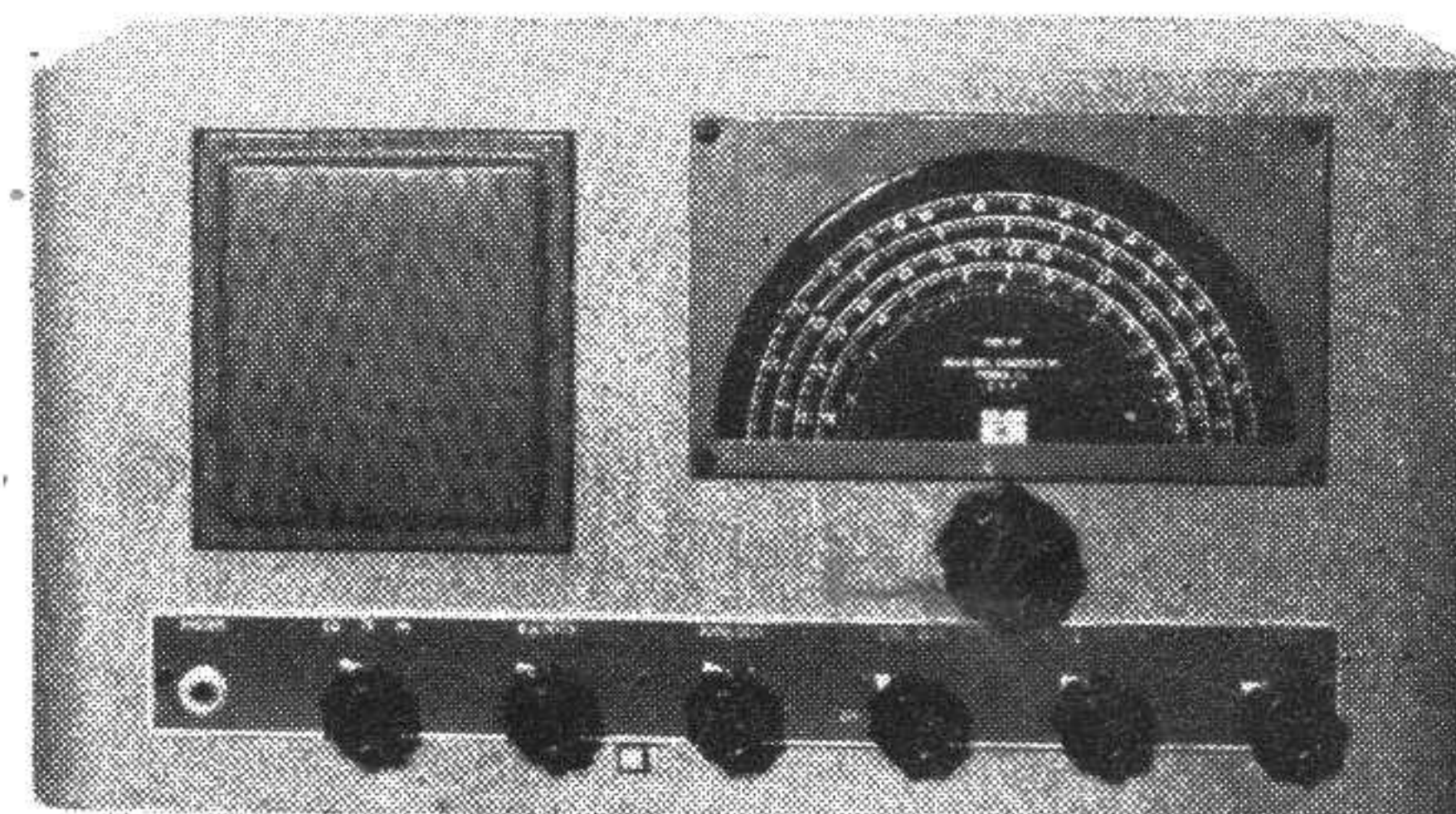
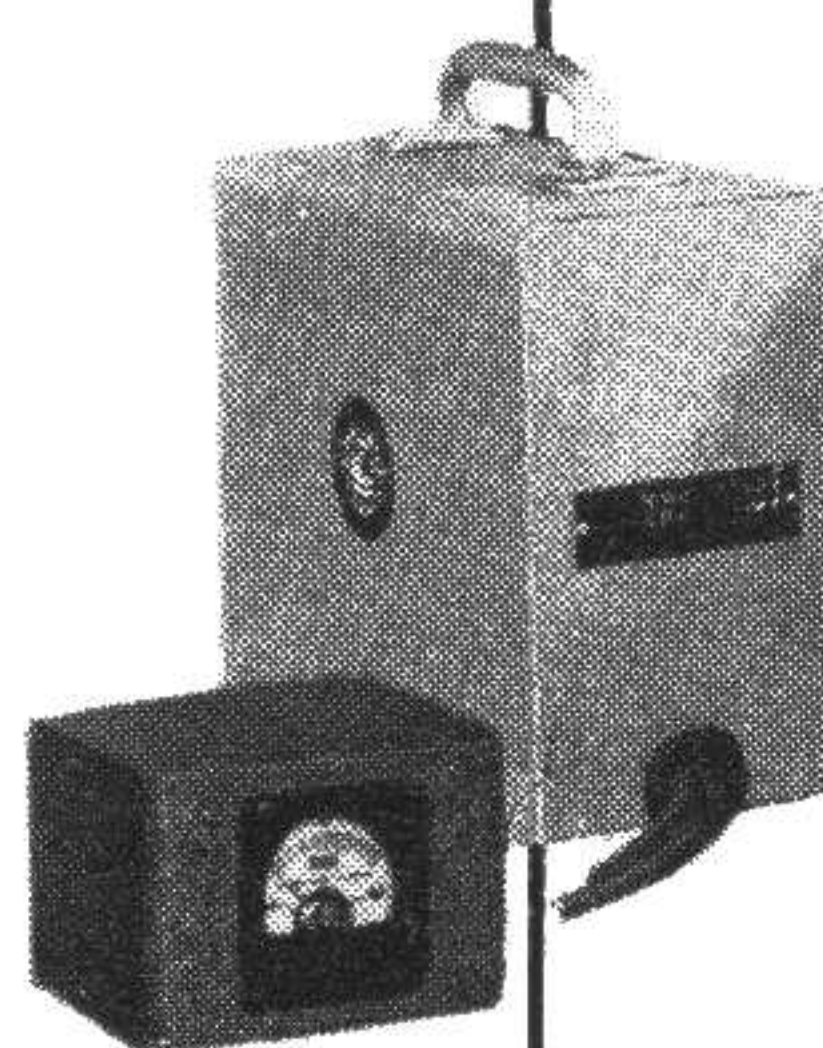
Here's the new DB22A completely redesigned for greater efficiency and higher signal to noise ratio. It uses new 6BA6 miniatures. Image ratio is better than 50 DB with a communications receiver having a single stage of RF. It's calibrated, has smooth planetary tuning, self contained power supply, antenna bypass switch, gain control and many other features. Connect the DB22A to your receiver just like an antenna — no wiring — no plug in coils. It's entirely self-contained — entirely in a class by itself!



### *The RME 84*

For Home, Portable or Mobile Operation

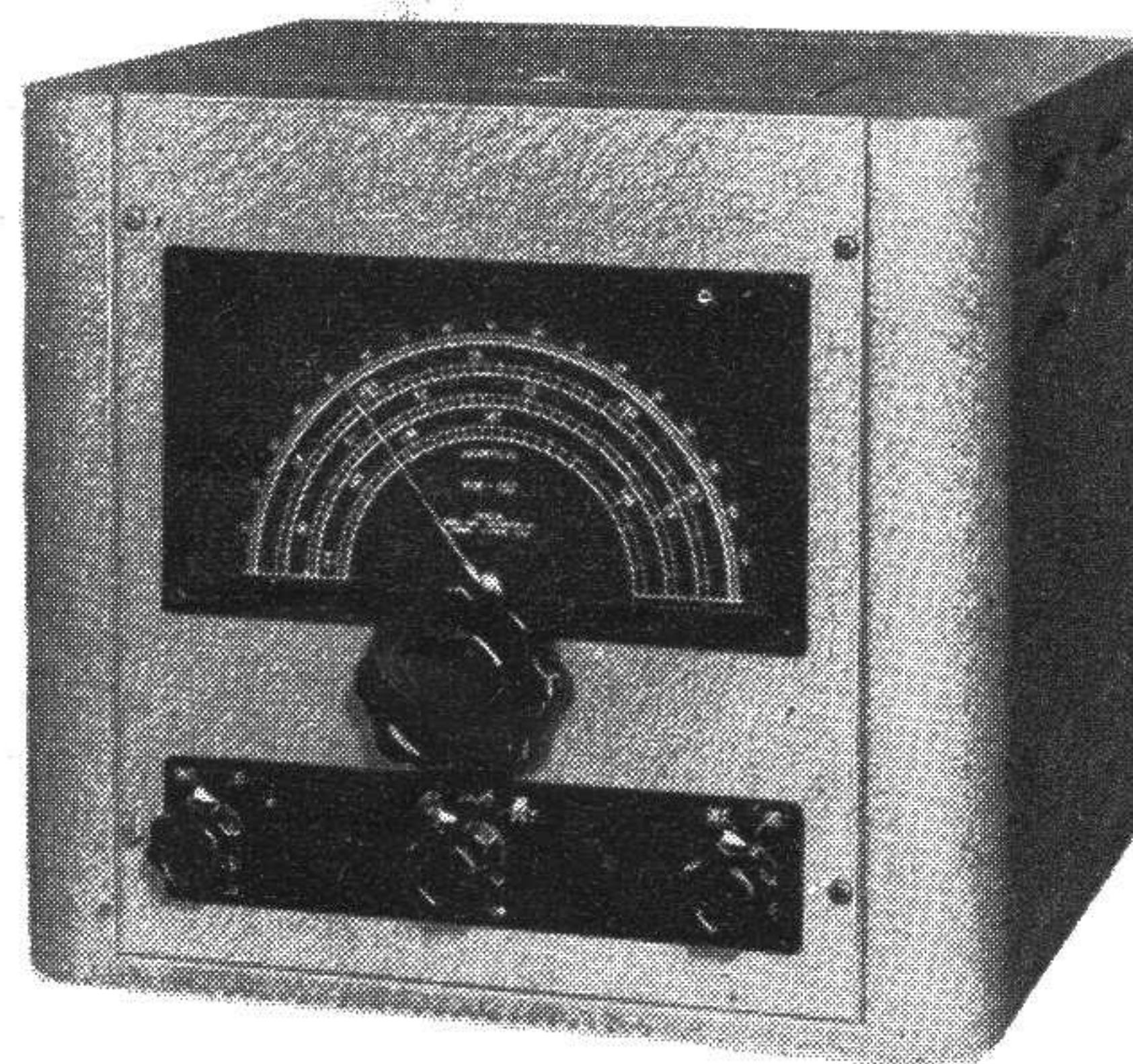
A quality receiver in the lower price field that will give you the most for your money. Operates from 115 volts AC, batteries or from the VP-2, a six volt power pack, optional with the RME 84. Also optional, and illustrated, is the CM-1 — Carrier Level "S" Meter.



### *The VHF-152 Converter*

For Two, Six, Ten and Eleven Meters

At a cost that an amateur can afford — the new VHF-152 used with a communications receiver will give you peak performance on the very high frequency bands, utilizing an efficient double conversion system. Unit has built in power supply, voltage regulator and temperature stabilized oscillator circuits. Provision is made for connection of 4 separate antennas.



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Folders  
On Request



# RME

FINE COMMUNICATIONS EQUIPMENT

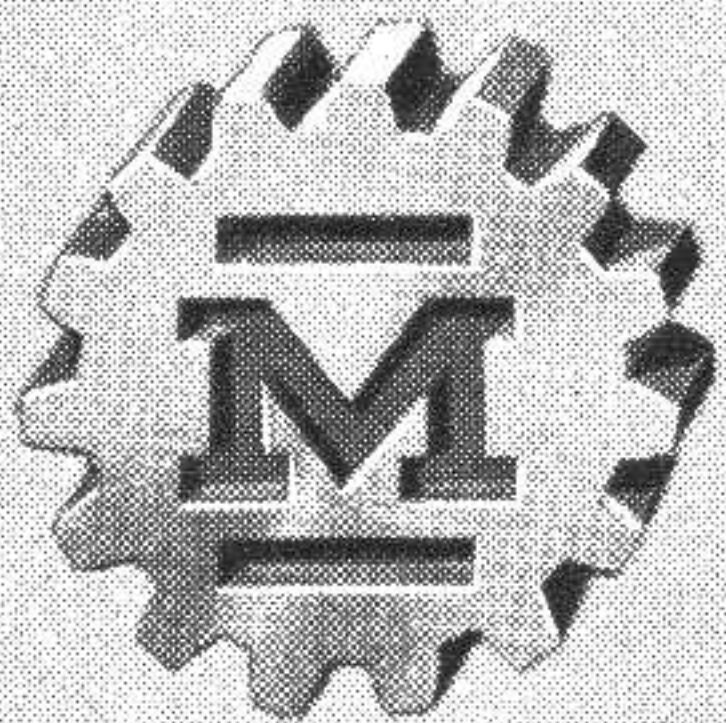
## RADIO MFG. ENGINEERS, INC.

Peoria 6, Illinois U. S. A.

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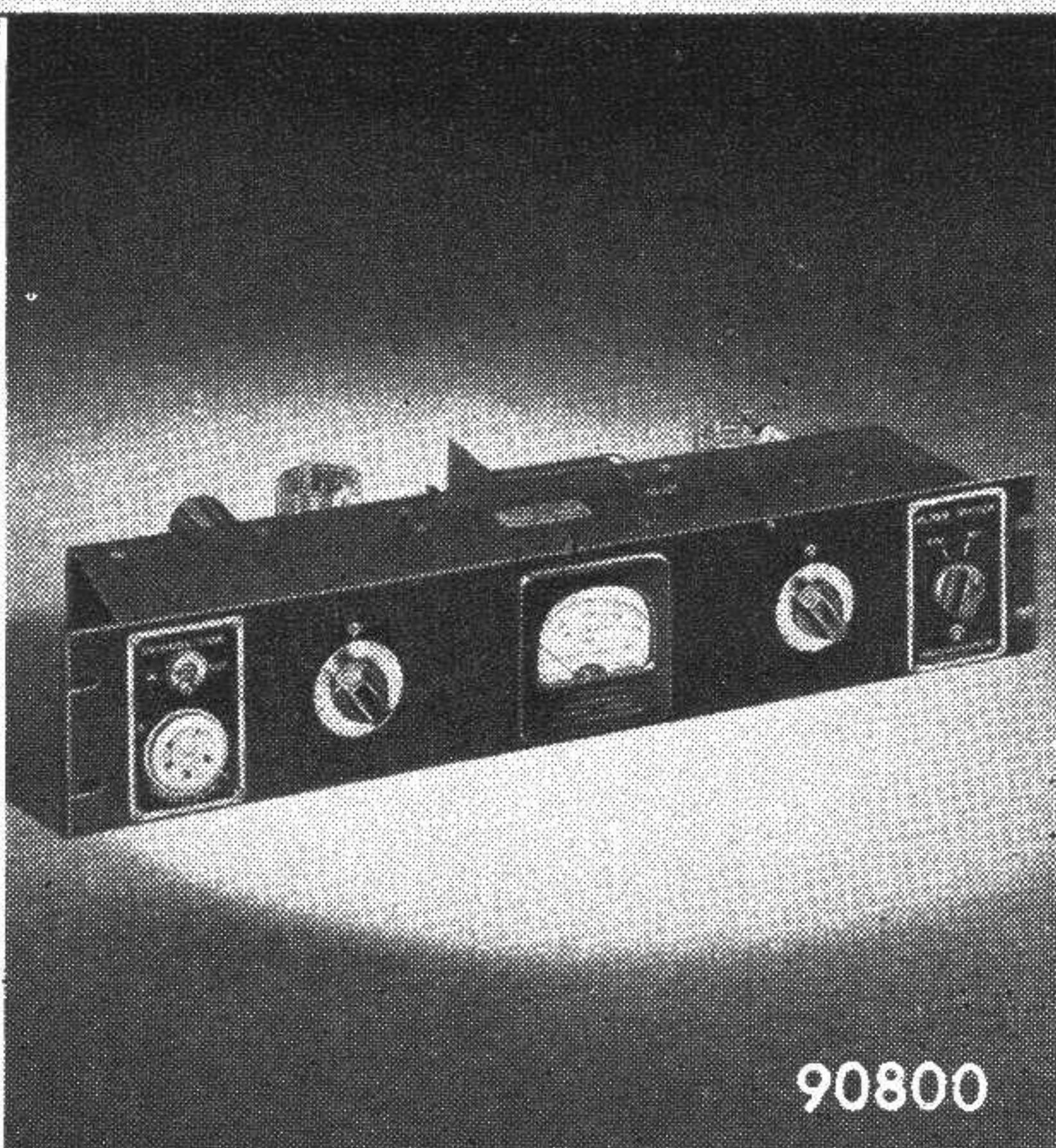
# Designed for Application



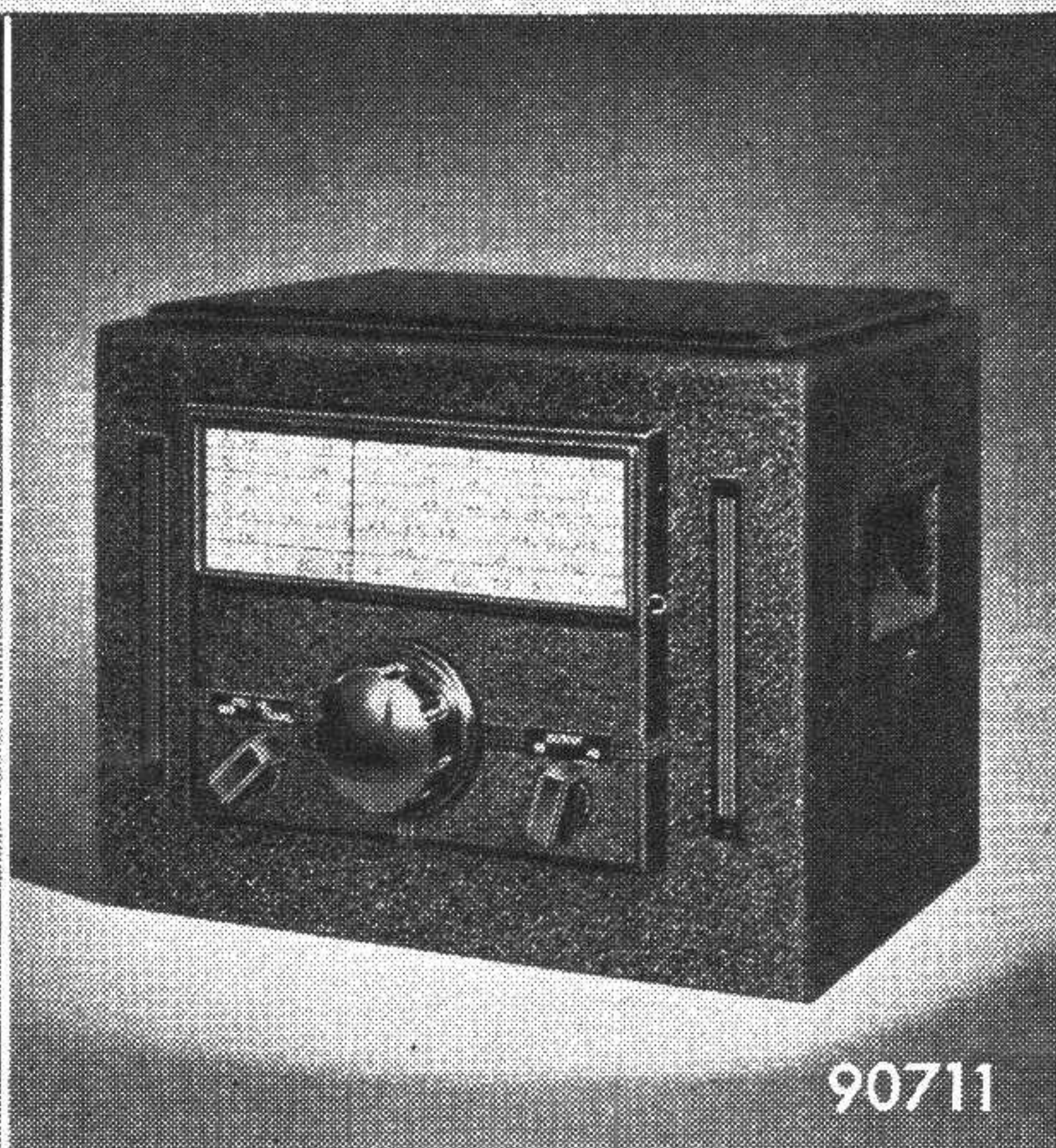
Millen "Designed for Application" components are different! As a designer and manufacturer for many years of complex electronic and communication equipment, we are our own best customer for component parts. Consequently, we have to perform an outstanding job of designing and manufacturing such parts in order to satisfy our own applications. Our parts are "different", also, because as symbolized by the "Gear wheel" of our registered trade mark, they are designed by mechanical engineers working in close cooperation with our electronic circuit group. Below are illustrated a typical half dozen of the many "Designed for Performance" equipments we manufacture from our own component parts.



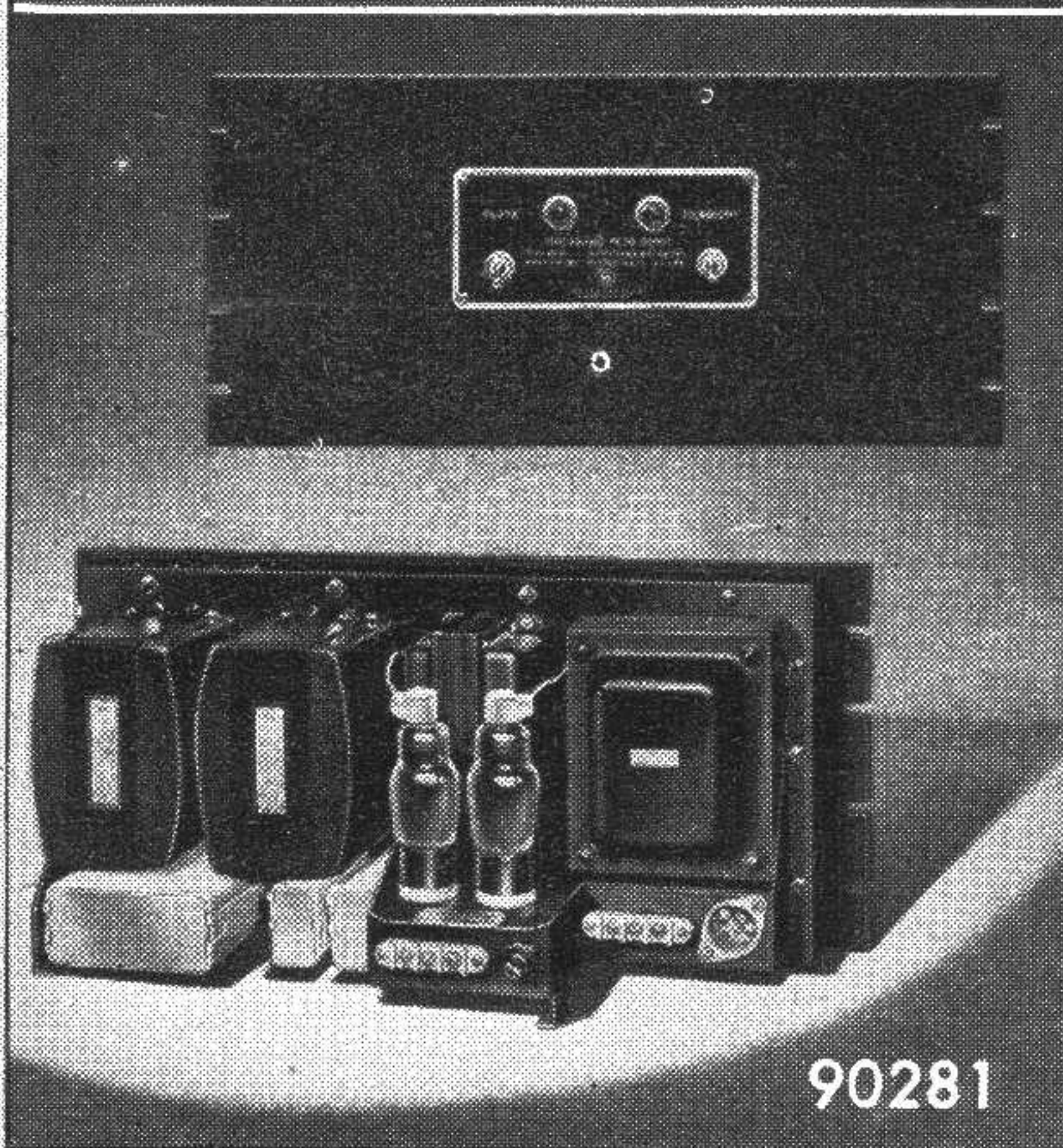
90881



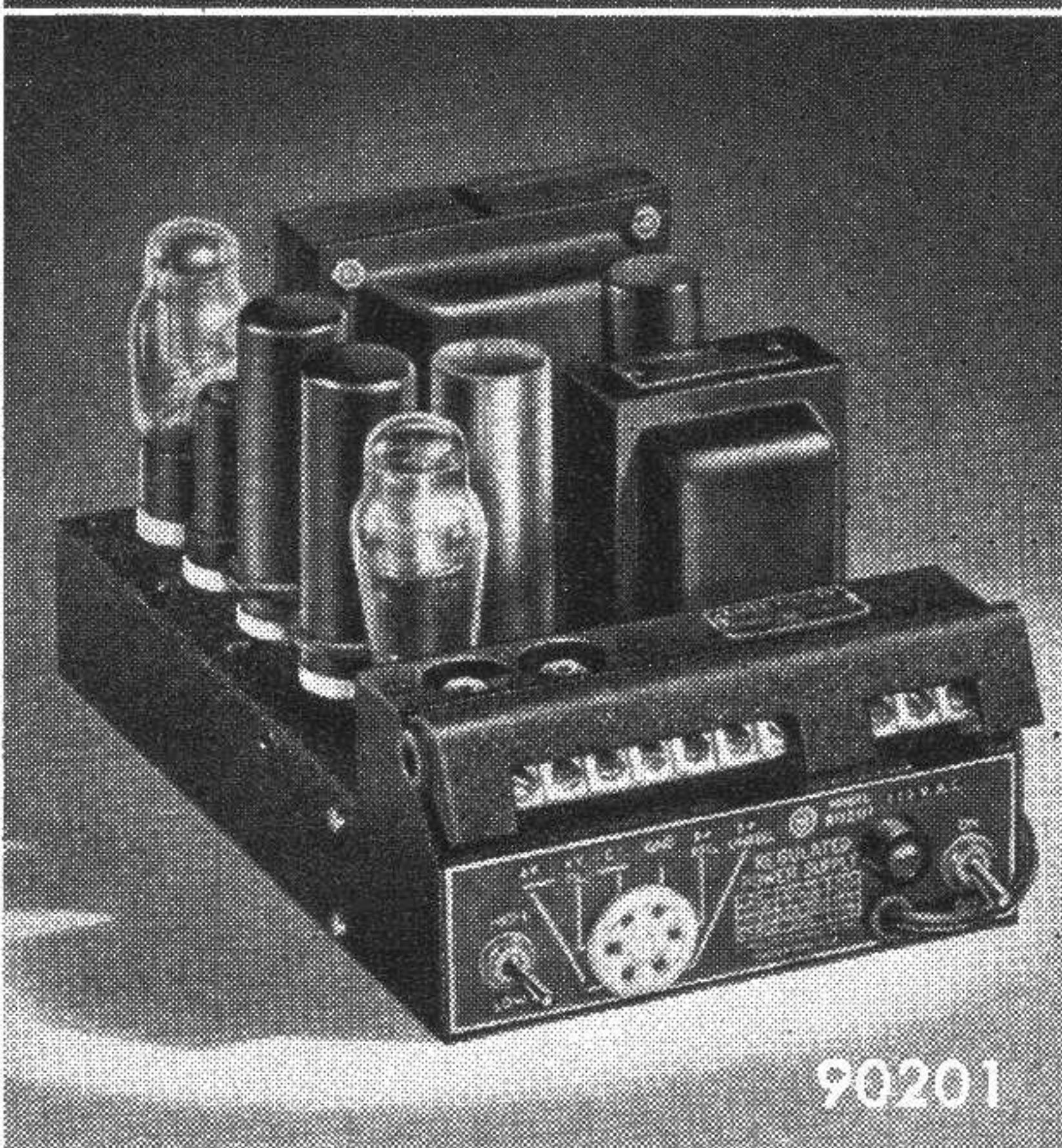
90800



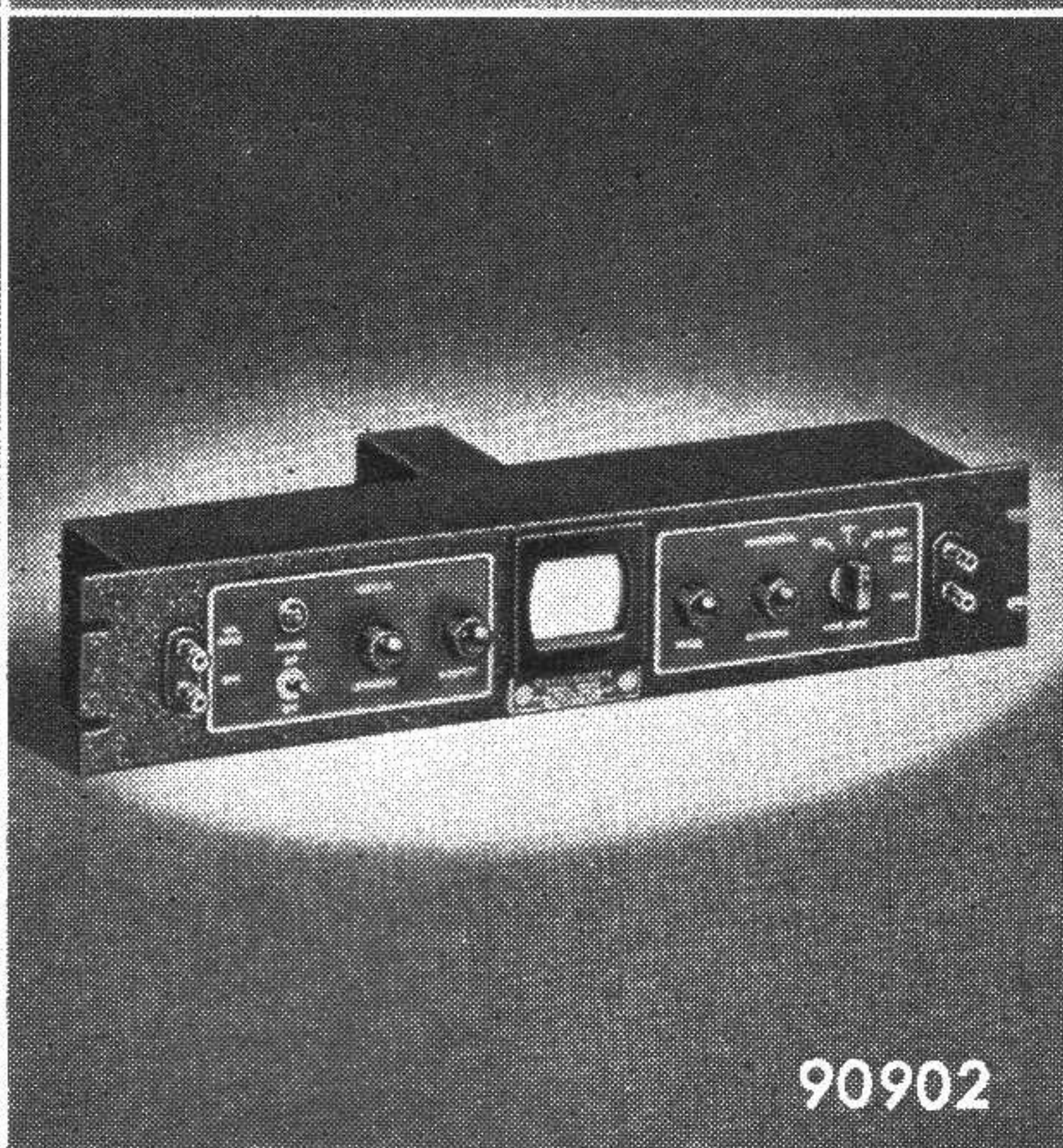
90711



90281



90201



90902

Illustrated above, left to right; Top Row: The No. 90881, 500 watt, RF power amplifier. Plug-in inductors available from stock for all amateur bands and on special order for particular commercial frequencies. The No. 90800 transmitter-exciter. May be used as either an independent 50 watt transmitter or as an exciter for the No. 90881, 500 watt amplifier. The No. 90711 variable frequency oscillator. Bottom row: The No. 90281, 700 volt, 250 MA power supply, the No. 90201 regulated power supply and the No. 90902 cathode ray oscilloscope.

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IN ALL  
PRINCIPAL CITIES

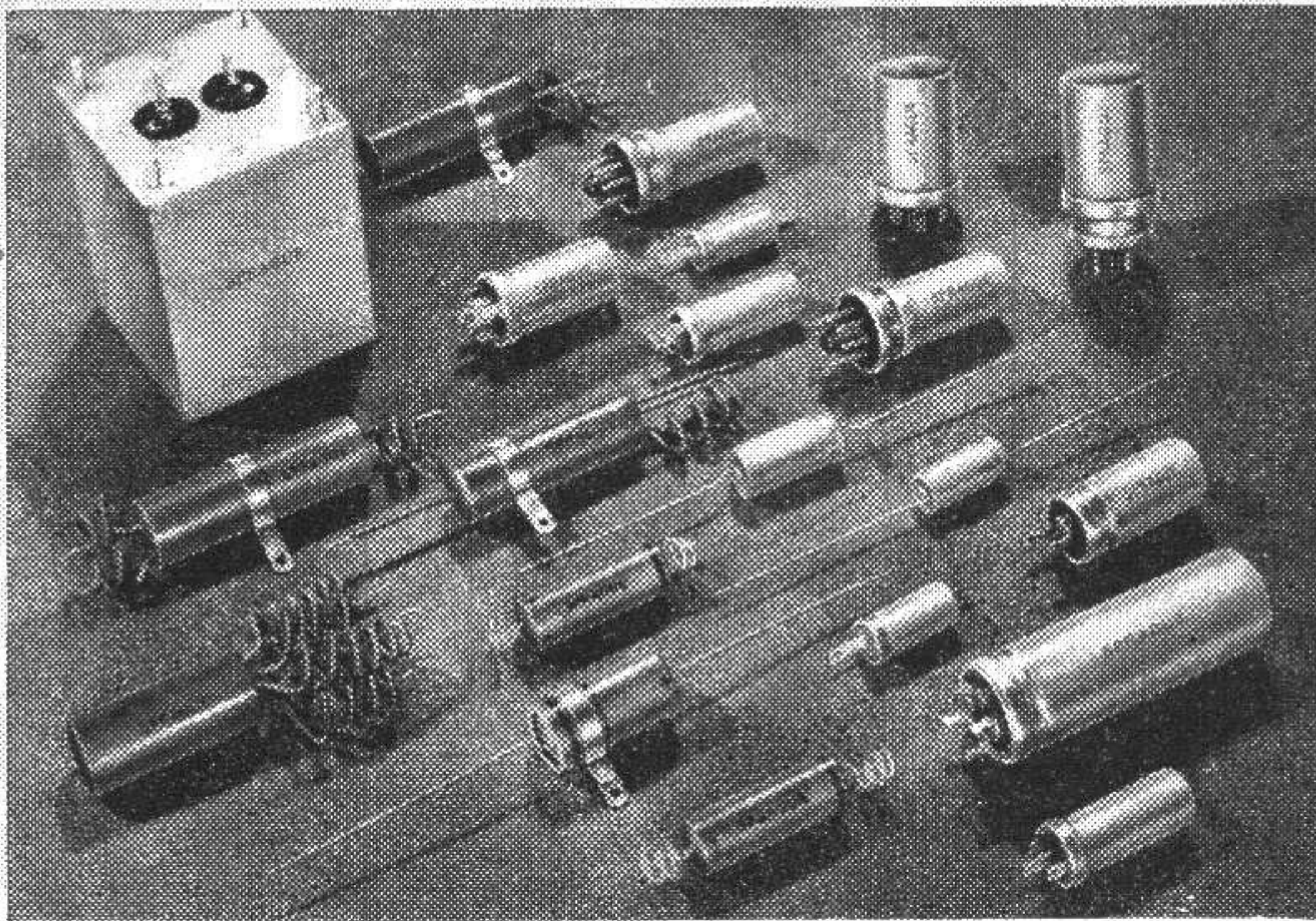
CANADIAN SALES  
ASTRAL ELECTRIC CO.  
SCARBORO BLUFFS (TORONTO)



# Here's Capacitor Dependability!

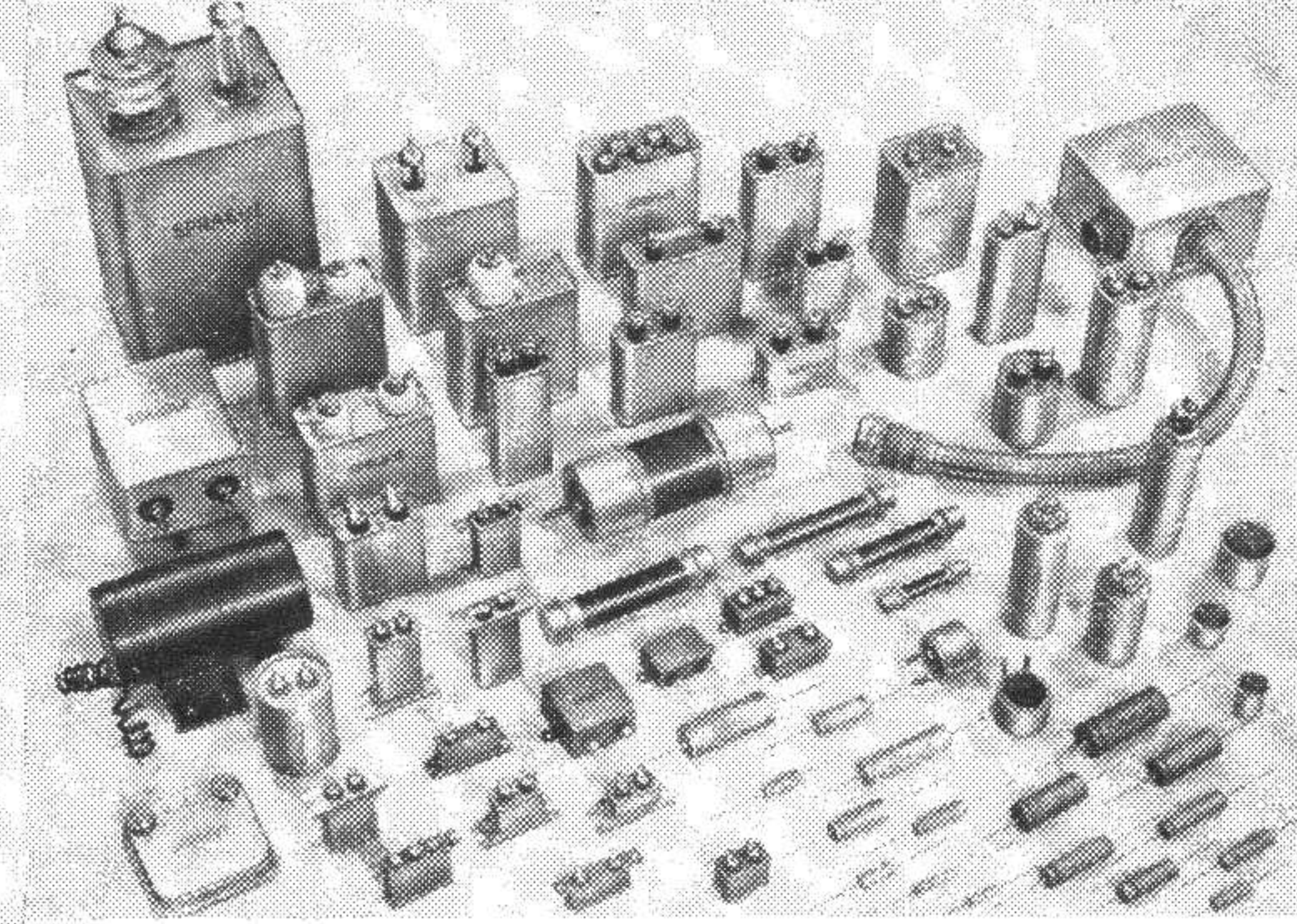
Shown here are a few of more than 9675 capacitor and \*Koolohm resistor types that Sprague produces every year. Many of these are for critical industrial applications, others for national defense and ultra-exacting scientific needs.

From this vast array come the capacitors that are carefully selected for amateur radio uses—types that mean more for your money because they're better engineered, built more dependably. Catalog on request.



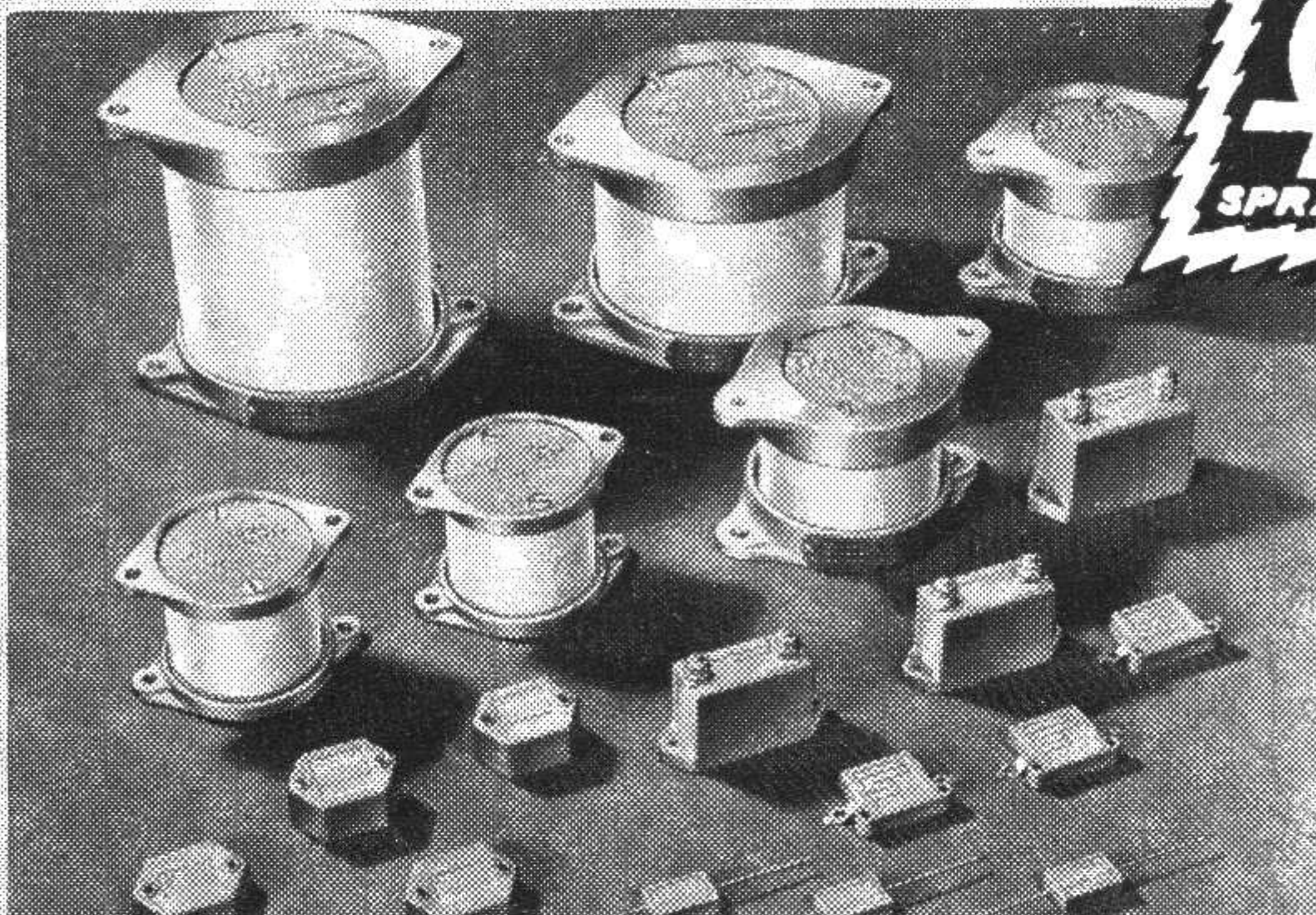
## DRY ELECTROLYTICS

Sprague offers the most diversified dry electrolytic capacitor line ever presented for standard distributor stock. Tiny "Atom" midgets; self-mounting multi-section units; high-capacity, low-voltage tubulars; rectangular and cylindrical shapes; lug, bracket and self-mounting types; terminals and lead connections and many others!



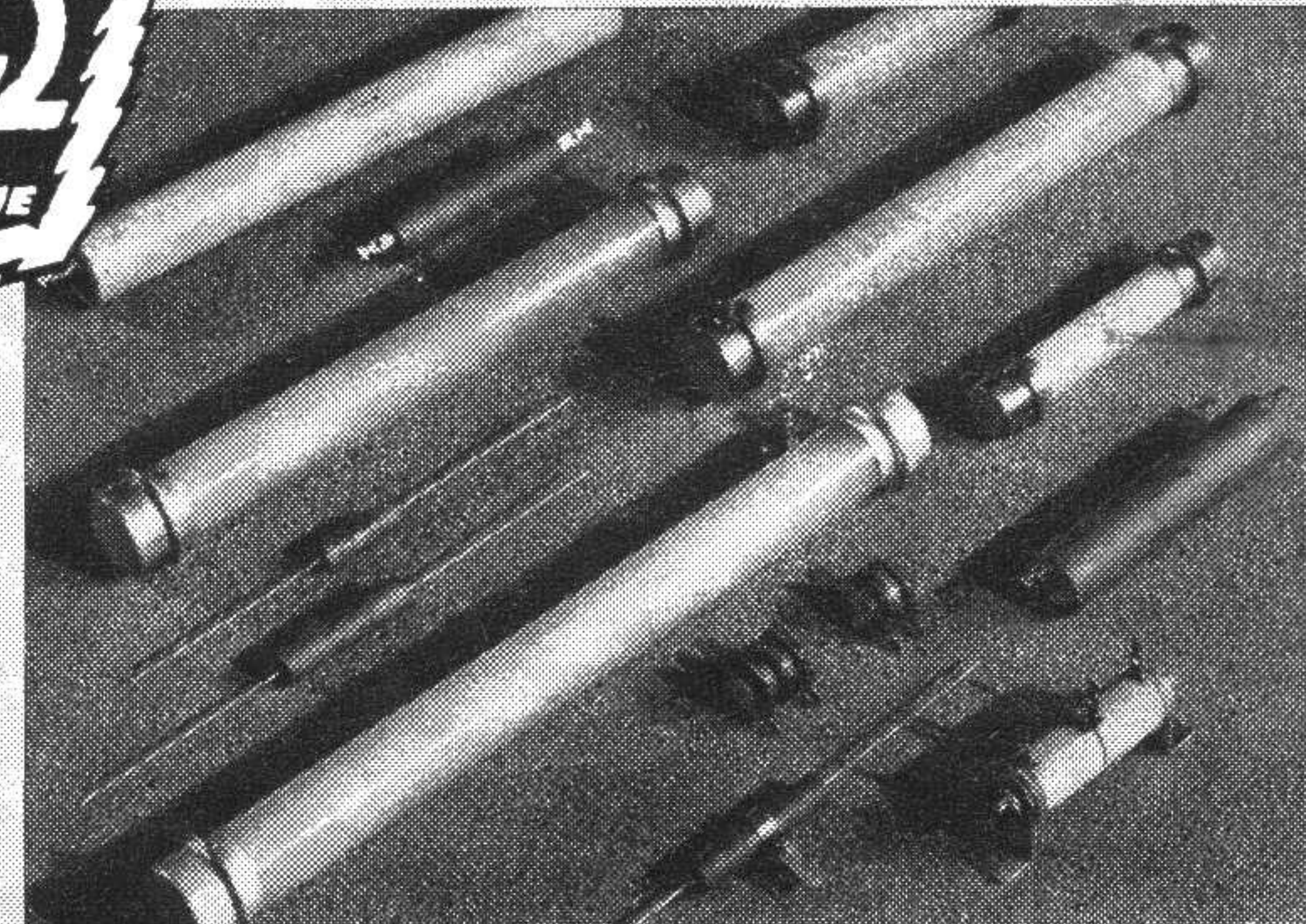
## PAPER DIELECTRICS

Standard Sprague paper dielectric capacitors for amateur use include 15 types and over 250 items. Chief among them are three small, popularly priced transmitting types that are both filled and impregnated with \*KVO, the exclusive Sprague dielectric. And don't forget the TC Tubular By-pass types—"Not a failure in a million!"



## MICA DIELECTRICS

Sprague distributors carry complete stocks of popular mica capacitors including all needed capacities and voltage ratings—in sizes from "postage stamp" silvered micas to high-voltage ceramic-jacketed units. All provide maximum quality for R-F applications where low power factor and high insulation resistance at high frequencies are essential.



## \*KOLOHM RESISTORS

Sprague Koolohm Resistors are wound with wire insulated before winding with a flexible ceramic coating that is impervious to heat as high as 1000° C. Doubly protected by glazed ceramic shells and moisture resistant seals. Insulated for 10,000 volts resistance breakdown to ground. Larger, sturdier wire sizes in smaller resistors. Use Koolohms at full wattage ratings—anywhere!

\*Trademarks Reg. U. S. Pat. Off.

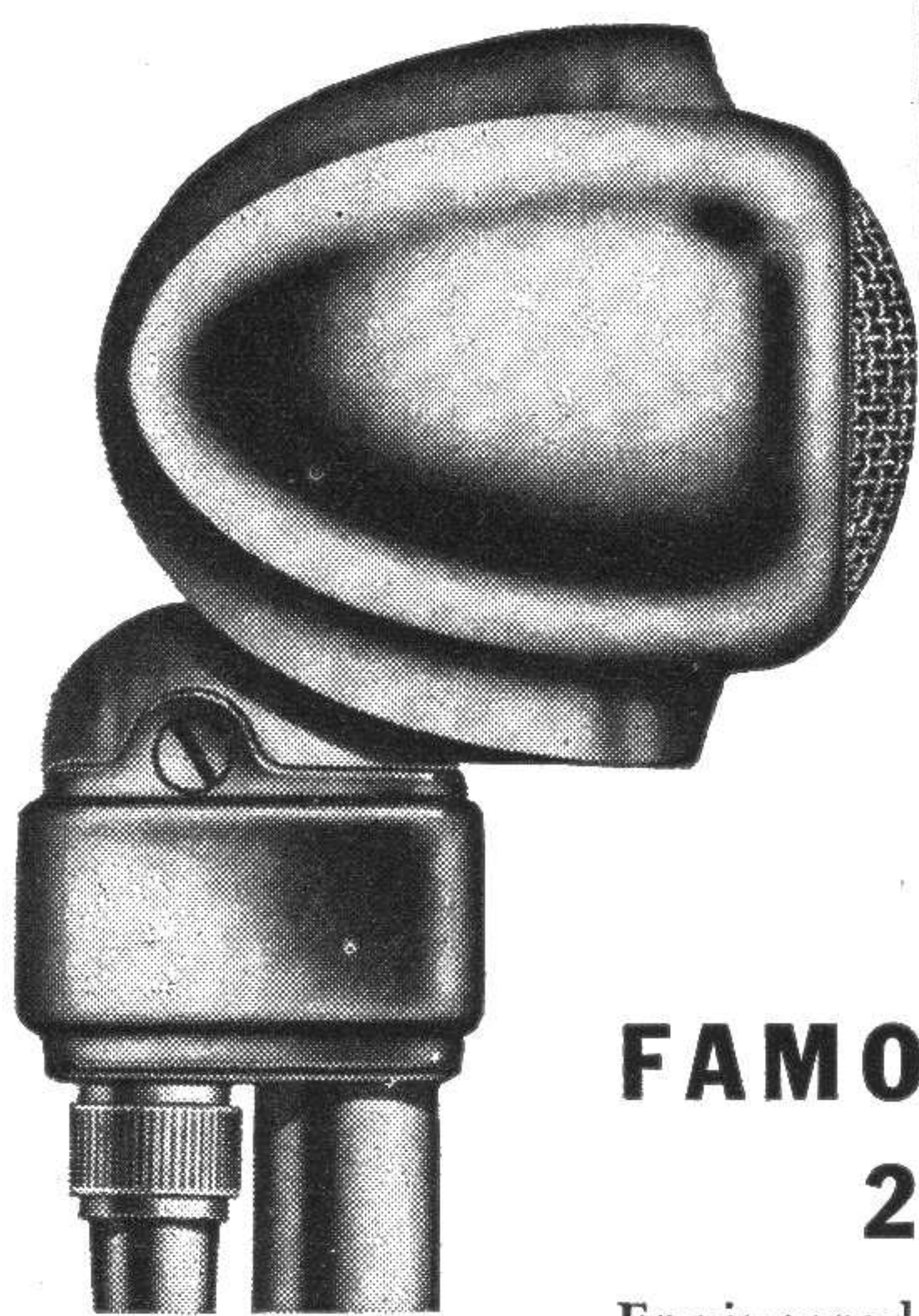
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PIONEERS OF ELECTRONIC AND ELECTRICAL PROGRESS  
SPRAGUE PRODUCTS COMPANY, NORTH ADAMS, MASS.

*Jobbing distributing organization for products of Sprague Electric Co.*

*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*





# THE PASSWORD TO SOUND PERFORMANCE

## *Microphones* BY TURNER

### FAMOUS TURNER 22X-22D

Engineered for smooth response to both voice and music pick-ups. Choice of crystal or dynamic circuits. 22X Crystal has built-in wind-gag permitting outdoor operation. Crystal impregnated against moisture and protected against changes in barometric pressure. Level: 52db below 1 volt/dyne/sq.cm. Response: Flat within  $\pm 5$ db from 50 to 9000 c.p.s. 22D Dynamic has high level dynamic cartridge. Dependable indoors or out. Response: Flat within  $\pm 5$ db from 50 to 9000 c.p.s. Level: 54db below 1 volt/dyne/sq.cm. In 50, 200, 500 ohms or high impedance. Both models equipped with 90° tilting head and 7 ft. removable cable set.

### NEW, IMPROVED VT-73 DESK MICROPHONE



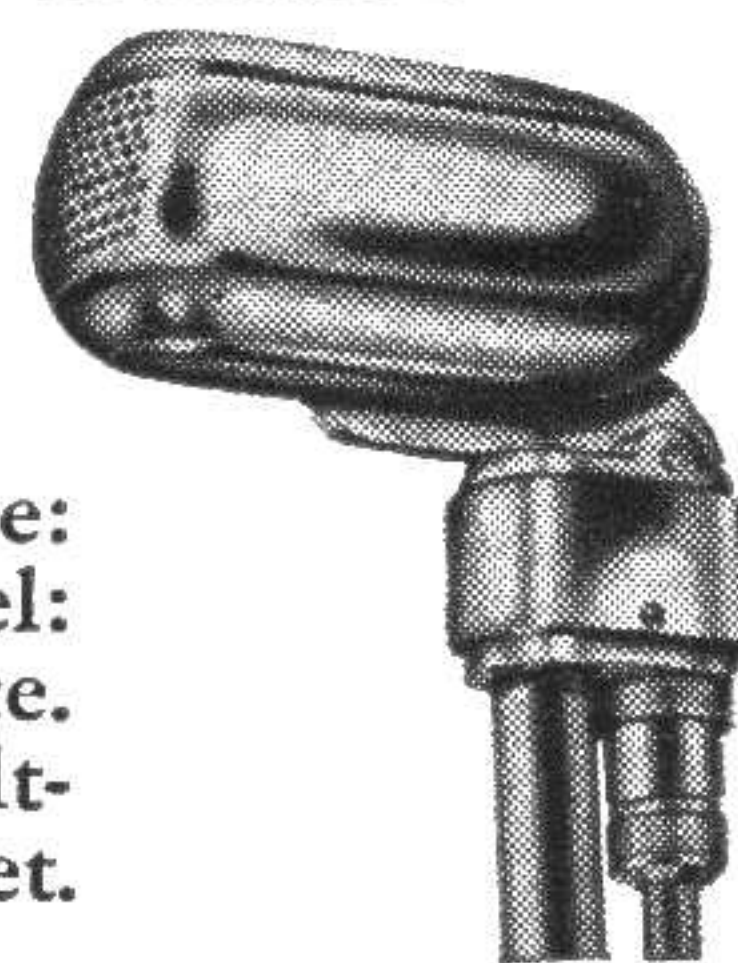
Here's a dependable unit for clear, crisp results. Stepped up in both performance and styling. The new Turner VT-73 increases intelligibility at voice frequencies without over-modulation. Engineered especially for Quality speech recording, public address, and amateur use with *rising curvature of response* between 500-4000 cycles. High quality moisture proofed crystal. Level: 52db below 1 volt/dyne/sq.cm. Response: 50-7000 c.p.s. Finished in black crinkle and chrome. Complete with ball swivel head, stand and 7 ft. cable.

**A WORLD WIDE FAVORITE WITH PROMINENT AMATEURS FOR QUALITY REPORTS**

For microphones you can depend upon for clear, sharp communications Turn to Turner—the *password to sound performance*. Precision engineered of finest materials Turner Microphones are built to stand up and deliver under the most difficult service conditions. To thousands of radio amateurs there's no mike like a Turner—the leader in style, in dependability, in performance.

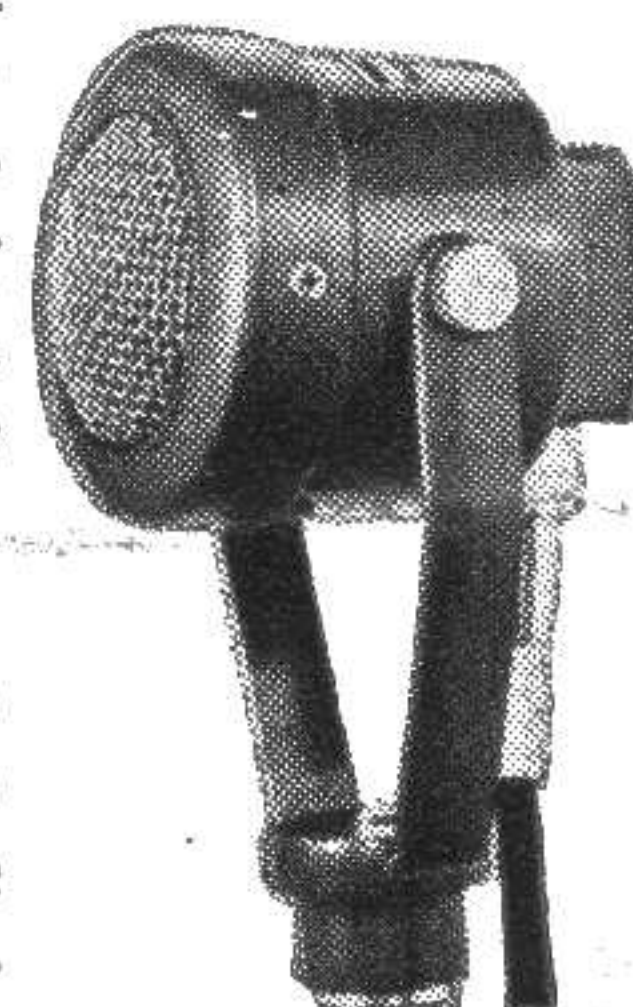
### MODEL 211 BROADCAST QUALITY DYNAMIC

Engineered for highest quality recording, P.A., sound system and broadcast work. Utilizes new type magnet structure and acoustic network. Unique diaphragm structure design provides extremely low harmonic and phase distortion without sacrifice of high output level. Response: Flat within  $\pm 5$ db from 30-10,000 c.p.s. Level: 54db below 1 volt/dyne/sq.cm. at high impedance. Available in all standard impedances with 90° tilting head and 20 ft. heavy duty removable cable set.



### FOR PROFESSIONAL RESULTS WITH YOUR RIG

**TURNER 99 DYNAMIC** The most rugged microphone in the entire Turner line. Professional in both appearance and performance. Engineered and built for the discriminating user who wants utmost in efficiency and dependability. Withstands severe climate and temperature changes. Semi- or non-directional operation. Baked gun-metal finish. Level: 52db below 1 volt/dyne/sq.cm. Response: Flat within  $\pm 5$ db from 40 to 9000 c.p.s. Choice of 50, 200, 500 ohms or high impedance with 20 ft. removable cable set. Also available as Model 999 with Balanced Line features for critical applications.



### PLUS PERFORMANCE AT LOW COST...TURNER CHALLENGERS



Turner Challenger Microphones are designed and built to give highly satisfactory results in economical P.A., sound system, and amateur installations. Price considered, they have no equal for performance. They are built with the same care and precision as all Turner Microphones and are fully guaranteed.



**MODEL BX CRYSTAL** A semi-directional unit for recording, P. A., and amateur work. Attractive brown enamel finish. High quality crystal. Humidity protected. Shock mounted and equipped with barometric compensator. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within  $\pm 5$ db from 50-6000 c.p.s. With 7 ft. attached cable.

**MODEL BD DYNAMIC** Same style and finish as Model BX except equipped with high level dynamic cartridge. Rugged. Works indoors or out. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within  $\pm 8$ db from 50-6000 c.p.s. Choice of 50, 200, 500 ohms, or high impedance. Complete with 7 ft. attached cable.

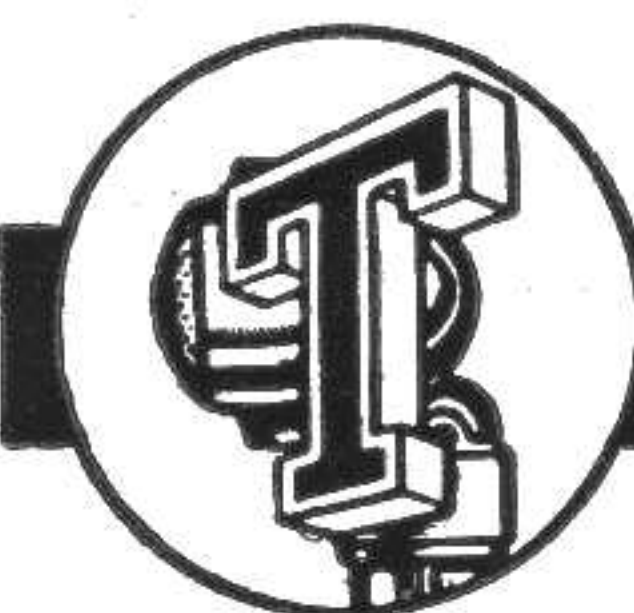
**MODEL CX CRYSTAL** Attractive general purpose semi-directional microphone finished in satin chrome. Has 7 ft. removable cable set. High quality humidity protected crystal. Shock mounted and equipped with barometric compensator. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within  $\pm 5$ db from 50-7000 c.p.s.

**MODEL CD DYNAMIC** Same appearance and satin chrome finish as Model CX. Smooth performing dynamic circuit withstands rougher handling. Level: 52db below 1 volt/dyne/sq. cm. Response: flat within  $\pm 8$ db from 50-7000 c.p.s. Complete with 7 ft. removable cable set in a choice of 50, 200, 500 ohms, or high impedance.

*Complete Turner Microphone line includes crystal and dynamic units for every communication and sound need. Write for literature.*

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# INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in locating the country when DX calls are heard. Figures in parentheses ( ) show the amount of postage required when mailing from the United States and possessions. The first figure is for letters, (first ounce or fraction), and the second figure for post cards or QSL cards.

AC3 (5, 3)	SIKKIM	KH6 (3, 1)	HAWAIIAN ISLANDS	VP5 (5, 3)	JAMAICA, CAYMAN, TURKS & CAICOS IS.
AC4 (5, 3)	TIBET	KJ6 (3, 1)	JOHNSTON ISLAND	VP6 (5, 3)	BARBADOS
AR (5, 3)	SYRIA	KL7 (3, 1)	ALASKA	VP7 (5, 3)	BAHAMA ISLANDS
C (5, 3)	CHINA	KM6 (3, 1)	MIDWAY ISLAND	VP8 (5, 3)	FALKLAND ISLANDS, South Georgia, South Orkney and South Shetland Islands.
CE (3, 2)	CHILE	KP4 (3, 1)	PUERTO RICO	VP9 (5, 3)	BERMUDA ISLANDS
CM-CO (3, 2)	CUBA	KP6 (3, 1)	PALMYRA & JARVIS ISLANDS	VQ1 (5, 3)	ZANZIBAR
CN8 (5, 3)	FRENCH MOROCCO	KS4 (3, 1)	SWAN ISLAND	VQ2 (5, 3)	NORTHERN RHODESIA
CP (3, 2)	BOLIVIA	KS6 (3, 1)	U. S. SAMOA	VQ3 (5, 3)	TANGANYIKA
CR4 (5, 3)	CAPE VERDE ISLANDS	KV4 (3, 1)	VIRGIN ISLANDS	VQ4 (5, 3)	KENYA
CR5 (5, 3)	PORTUGUESE GUINEA	KW6 (3, 1)	WAKE ISLAND	VQ5 (5, 3)	UGANDA
CR6 (5, 3)	ANGOLA	KZ5 (3, 1)	CANAL ZONE	VQ6 (5, 3)	BRITISH SOMALILAND
CR7 (5, 3)	MOZAMBIQUE	LA (5, 3)	NORWAY	VQ8 (5, 3)	CHAGOS ISLAND & MAURITIUS
CR8 (5, 3)	GOA (Portuguese India)	LU (3, 2)	ARGENTINA	VQ9 (5, 3)	SEYCHELLES
CR9 (5, 3)	MACAU	LX (5, 3)	LUXEMBOURG	VR1 (5, 3)	GILBERT, ELLICE & OCEAN ISLANDS
CR10 (5, 3)	TIMOR ISLAND (Port.)	LZ (5, 3)	BULGARIA	VR2 (5, 3)	FIJI ISLANDS
CT1 (5, 3)	PORTUGAL	NY4 (3, 1)	GUANTANAMO BAY, CUBA	VR3 (5, 3)	FANNING ISLAND
CT2 (5, 3)	AZORES ISLANDS	OA (3, 2)	PERU	VR4 (5, 3)	SOLOMON ISLANDS
CT3 (5, 3)	MADERIA ISLANDS	OH (5, 3)	FINLAND	VR5 (5, 3)	TONGA (Friendly) ISLAND
CX (3, 2)	URUGUAY	OE (5, 3)	AUSTRIA	VR6 (5, 3)	PITCAIRN ISLAND
D (5, 3)	GERMANY	OK (5, 3)	CZECHOSLOVAKIA	VS1 (5, 3)	STRAIT SETTLEMENTS
EA (3, 2)	SPAIN	ON (5, 3)	BELGIUM	VS2 (5, 3)	FEDERATED MALAY STATES
EA6 (3, 2)	BALEARIC ISLANDS	OQ5 (5, 3)	BELGIAN CONGO	VS3 (5, 3)	NON-FEDERATED MALAY STATES
EA8 (3, 2)	CANARY ISLANDS	OX (5, 3)	GREENLAND	VS4 (5, 3)	BRITISH NORTH BORNEO
EA9 (3, 2)	SPANISH MOROCCO	OY (5, 3)	FAEROES ISLANDS	VS5 (5, 3)	BRUNEI & SARAWAK
EI (5, 3)	IRELAND	OZ (5, 3)	DENMARK	VS6 (5, 3)	HONG KONG
EK1 (5, 3)	TANGIER ZONE	PA, PI (5, 3)	NETHERLANDS	VS7 (5, 3)	CEYLON
EL (5, 3)	LIBERIA	PJ (5, 3)	NETH. WEST INDIES	VS9 (5, 3)	ADEN & SOCOTRA ISLANDS
EP, EQ (5, 3)	IRAN (ex Persia)	PK1, 2, 3 (5, 3)	JAVA	VU (5, 3)	INDIA
ET (5, 3)	ETHIOPIA	PK4 (5, 3)	SUMATRA	VU4 (5, 3)	LACCADIVE ISLANDS
F (5, 3)	FRANCE	PK5 (5, 3)	BORNEO (Neth. Indies)	VU7 (5, 3)	BAHREIN ISLANDS
FA (5, 3)	ALGERIA	PK6 (5, 3)	CELEBES & MOLUCCA IS., & NETHERLAND NEW GUINEA	W (3, 1)	UNITED STATES
FB8 (5, 3)	MADAGASCAR	PX (5, 3)	ANDORRA	XE (3, 2)	MEXICO
FD8 (5, 3)	FRENCH TOGOLAND	PY (3, 2)	BRAZIL	XU (5, 3)	CHINA
FE8 (5, 3)	FRENCH CAMEROONS	PZ (5, 3)	SURINAM	XZ (5, 3)	BURMA
FF8 (5, 3)	FRENCH WEST AFRICA	SM (5, 3)	SWEDEN	YA (5, 3)	AFGHANISTAN
FG8 (5, 3)	GUADELOUPE	SP (5, 3)	POLAND	YI (5, 3)	IRAQ
FI8 (5, 3)	FRENCH INDO-CHINA	ST (5, 3)	SUDAN	YJ (5, 3)	NEW HEBRIDES
FK8 (5, 3)	NEW CALEDONIA	SU (5, 3)	EGYPT	YN (3, 2)	NICARAGUA
FL8 (5, 3)	FRENCH SOMALILAND	SV (5, 3)	CRETE & GREECE	YR (5, 3)	ROUMANIA
FM8 (5, 3)	MARTINIQUE	TA (5, 3)	TURKEY	YS (3, 2)	SALVADOR
FN (5, 3)	FRENCH INDIA	TF (5, 3)	ICELAND	YT, YU (5, 3)	YUGOSLAVIA
FO8 (5, 3)	TAHITI	TG (3, 2)	GUATEMALA	YV (3, 2)	VENEZUELA
FP8 (5, 3)	MIQUELON & ST. PIERRE IS.	TI (3, 2)	COSTA RICA	ZA (5, 3)	ALBANIA
FQ8 (5, 3)	FRENCH EQUATORIAL AFRICA	UA1-3-4-6 (5, 3)	EUROPEAN RUSSIAN SOCIALIST FEDERATED SOVIET REPUBLIC	ZB1 (5, 3)	MALTA
FR8 (5, 3)	REUNION ISLAND	UA9-8 (5, 3)	ASIATIC RUSSIAN S. F. S. R.	ZB2 (5, 3)	GIBRALTAR
FT4 (5, 3)	TUNISIA	UB5 (5, 3)	UKRAINE	ZC1 (5, 3)	TRANSJORDAN
FU8 (5, 3)	NEW HEBRIDES	UC5 (5, 3)	WHITE RUSSIAN S.S.R.	ZC2 (5, 3)	COCOS ISLANDS
FY8 (5, 3)	FRENCH GUIANA	UD6 (5, 3)	AZERBAIJAN	ZC3 (5, 3)	CHRISTMAS ISLAND
G (5, 3)	ENGLAND	UF6 (5, 3)	GEORGIA	ZC4 (5, 3)	CYPRUS
GC (5, 3)	CHANNEL ISLANDS	UG6 (5, 3)	ARMENIA	ZC6 (5, 3)	PALESTINE
GI (5, 3)	NORTHERN IRELAND	UH8 (5, 3)	TURKOMAN	ZD1 (5, 3)	SIERRA LEONE
GM (5, 3)	SCOTLAND	UI8 (5, 3)	UZBEK	ZD2 (5, 3)	NIGERIA
GW (5, 3)	WALES	UJ8 (5, 3)	TADZHIK	ZD3 (5, 3)	GAMBIA
HA (5, 3)	HUNGARY	UL7 (5, 3)	KAZAKH	ZD4 (5, 3)	GOLD COAST & TOGOLAND
HB (5, 3)	SWITZERLAND	UM8 (5, 3)	KIRGHIZ	ZD6 (5, 3)	NYASALAND
HC (3, 2)	ECUADOR	UN1 (5, 3)	KARELO-FINNISH REPUBLIC	ZD7 (5, 3)	SAINT HELENA
HE1 (5, 3)	LIECHTENSTEIN	UO5 (5, 3)	MOLDAVIA	ZD8 (5, 3)	ASCENSION ISLAND
HH (3, 2)	HAITI	UP (5, 3)	LITHUANIA	ZD9 (5, 3)	TRISTAN DA CUNHA
HI (3, 2)	DOMINICAN REPUBLIC	UQ (5, 3)	LATVIA	ZE (5, 3)	SOUTHERN RHODESIA
HK (3, 2)	COLOMBIAN REPUBLIC	UR (5, 3)	ESTONIA	ZK1 (5, 3)	COOK ISLANDS
HP (3, 2)	PANAMA	VE (3, 2)	CANADA	ZK2 (5, 3)	NIUE
HR (3, 2)	HONDURAS	VK (5, 3)	AUSTRALIA	ZL (5, 3)	NEW ZEALAND
HS (5, 3)	SIAM	VK4 (5, 3)	PAPUA TERRITORY	ZM (5, 3)	WESTERN SAMOA
HZ (5, 3)	SAUDI ARABIA (HEDJAZ & NEJDI)	VK7 (5, 3)	TASMANIA	ZP (3, 2)	PARAGUAY
I (5, 3)	ITALY	VK9 (5, 3)	TER. OF NEW GUINEA	ZS (5, 3)	UNION OF SOUTH AFRICA
I6 (5, 3)	ERITREA	VO (3, 2)	NEWFOUNDLAND & LABRADOR		
J (5, 3)	JAPAN	VP1 (5, 3)	BRITISH HONDURAS		
J8 (5, 3)	KOREA	VP2 (5, 3)	LEEWARD & WINDWARD ISLANDS		
J9 (3, 1)	OKINAWA		(British), Antigua, Grenada, St. Kitts, St. Lucia, St. Vincent, and Dominica.		
K (3, 1)	UNITED STATES	VP3 (5, 3)	BRITISH GUIANA		
KA (5, 3)	PHILIPPINE ISLANDS	VP4 (5, 3)	TRINIDAD & TOBAGO IS.		
KB6 (5, 3)	BAKER, CANTON, ENDERBURY, HOWLAND & PHOENIX ISLANDS				
KC4 (5, 3)	ANTARCTICA				
KG6 (3, 1)	MARIANA ISLANDS (Guam)				



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# PREFIXES—BY COUNTRIES

The following countries listed in alphabetical order by country show international radio amateur prefixes. The figures in parentheses ( ) are international air mail postage rates for each half ounce or fraction in effect November 1, 1946. The air mail rate for Alaska, Canada, Canal Zone, Canton Island, Guam, Guantanamo Bay, Hawaii, Johnston Island, Mexico, Midway Island, Puerto Rico and the Virgin Islands is 5 cents per ounce or fraction.

	Cents	
ADEN	(25)	VS9
AFGHANISTAN	(25)	YA
ALASKA	(05)	KL7
ALBANIA	(15)	ZA
ALGERIA	(15)	FA
ANDORRA	(15)	PX
ANGOLA	(25)	CR6
ANTARCTICA		KC4
ANTIGUA	(10)	VP2
ARGENTINA	(10)	LU
ASCENSION I.	(15)	ZD8
AUSTRALIA	(25)	VK
AUSTRIA	(15)	OE
AZORES IS.	(15)	CT2
BAHAMA IS.	(10)	VP7
BAHRAIN IS.	(25)	VU7
BAKER I.	(05)	KB6
BALEARIC IS.	(15)	EA6
BARBADOS	(10)	VP6
BASUTOLAND	(25)	ZS4
BELGIAN CONGO	(25)	OQ5
BELGIUM	(15)	ON
BERMUDA IS.	(10)	VP9
BOLIVIA	(10)	CP
BORNEO (Br. North)	(25)	VS4
BORNEO (Neth. Indies)		PK5
BRAZIL	(10)	PY
BRITISH GUIANA	(10)	VP3
BRITISH HONDURAS	(10)	VP1
BULGARIA	(15)	LZ
BRUNEI	(25)	VS5
BURMA	(25)	XZ
CAMEROONS (British)	(25)	ZD2
CAMEROONS (French)	(25)	FE8
CANADA	(05)	VE
CANAL ZONE	(05)	KZ5
CANARY IS.	(25)	EA8
CANTON I.	(05)	KB6
CAPE VERDE IS.	(25)	CR4
CAYMAN IS.	(10)	VP5
CELEBES IS.	(25)	PK6
CEYLON	(25)	VS7
CHAGOS IS.	(25)	VQ8
CHANNEL IS.	(15)	GC
CHILE	(10)	CE
CHINA	(25)	C
CHINA	(25)	C, XU
CHRISTMAS I.		ZC3
COCOS IS.		ZC2
COLOMBIAN REP.	(10)	HK
COOK IS.		ZK1
COSTA RICA	(10)	TI
CRETE	(15)	SV
CUBA	(08)	CM-CO
CYPRUS	(25)	ZC4
CZECHOSLOVAKIA	(15)	OK
DENMARK	(15)	OZ
DOMINICA	(10)	VP2
DOMINICAN REP.	(10)	HI
ECUADOR	(10)	HC
EGYPT	(15)	SU
ELLICE IS.		VR1
ENDERBURY I.		KB6
ENGLAND	(15)	G
ERITREA	(25)	J6
ETHIOPIA	(25)	ET
FAEROES IS.	(15)	OY
FALKLAND IS.	(10)	VP8
FANNING I.		VR3
FIJI IS.	(25)	VR2
FINLAND	(15)	OH
FRANCE	(15)	F
FR. EQUATORIAL AFRICA	(25)	FQ8
FRENCH GUIANA	(10)	FY8
FRENCH INDIA	(25)	FN
FR. INDO-CHINA	(25)	F18
FRENCH OCEANIA	(25)	FO8
FRENCH W. AFRICA	(25)	FF8
GAMBIA	(25)	ZD3
GERMANY	(15)	D
GIBRALTAR	(15)	ZB2
GILBERT IS.		VR1

	Cents	
GOA (Portuguese India)	(25)	CR8
GOLD COAST	(25)	ZD4
GREECE	(15)	SV
GREENLAND		OX
GRENADA	(10)	VP2
GUADELOUPE	(10)	FG3
GUAM	(05)	KG6
GUANTANAMO BAY, CUBA		NY4
GUATEMALA	(10)	TG
HAITI	(10)	HH
HAWAIIAN IS.	(05)	KH6
HONDURAS	(10)	HR
HONG KONG	(25)	VS6
HOWLAND I.		KB6
HUNGARY	(15)	HA
ICELAND	(15)	TF
INDIA	(25)	VU
IRAN (ex Persia)	(25)	EP-EQ
IRAQ	(25)	YI
IRELAND	(15)	EI
ITALY	(15)	I
JAMAICA	(10)	VP5
JAN MAYEN I.		OY
JAPAN		J
JARVIS I. (Palmyra Group)		KP6
JAVA	(25)	PK1, 2, 3
JOHNSTON IS.		KJ6
KENYA	(25)	VQ4
KOREA		HL J8
LABRADOR	(10)	VO
LACCADIVE IS.	(25)	VU4
LEEWARD IS.	(10)	VP2
LIBERIA	(25)	EL
LIECHTENSTEIN	(15)	HE1
LITTLE AMERICA		KC4
LUXEMBOURG	(15)	LX
MACAU	(25)	CR9
MADAGASCAR	(25)	FB8
MADERIA IS.	(15)	CT3
MALAYA	(25)	VS
MALTA	(15)	ZB1
MARIANA IS.		KG6
MARTINIQUE	(10)	FM8
MAURITIUS	(25)	VQ8
MEXICO	(05)	XE
MIDWAY I.	(05)	KM6
MIQUELON & ST. PIERRE IS. (.07 per oz.)		FP8
MOLUCCA IS.		PK6
MOROCCO (French)	(15)	CN8
MOROCCO (Spanish)	(15)	EA9
MOZAMBIQUE		CR7
NETHERLANDS	(15)	PA, PI
NETHERLAND INDIES	(25)	PK
NETH. WEST INDIES	(10)	PJ
NEW CALEDONIA	(25)	FK8
NEWFOUNDLAND	(10)	VO
NEW GUINEA (Neth.)		PK6
NEW GUINEA (Ter. of)	(25)	VK4
NEW HEBRIDES		FU8, YJ
NEW ZEALAND	(25)	ZL
NICARAGUA	(10)	YN
NIGERIA	(25)	ZD2
NIUE		ZK2
NORTHERN IRELAND	(15)	GI
NORTHERN RHODESIA	(25)	VQ2
NORWAY	(15)	LA
NYASALAND	(25)	ZD6
OCEAN ISLAND		VR1
OKINAWA		J9
PALESTINE	(25)	ZC6
PALMYRA IS.	(05)	KP6
PANAMA	(10)	HP
PAPUA TERR. (Australian)	(25)	VK4
PARAGUAY	(10)	ZP
PERU	(10)	OA
PHILIPPINE IS.	(25)	KA
PHOENIX IS.	(05)	KB6
PITCAIRN I.		VR6
POLAND	(15)	SP

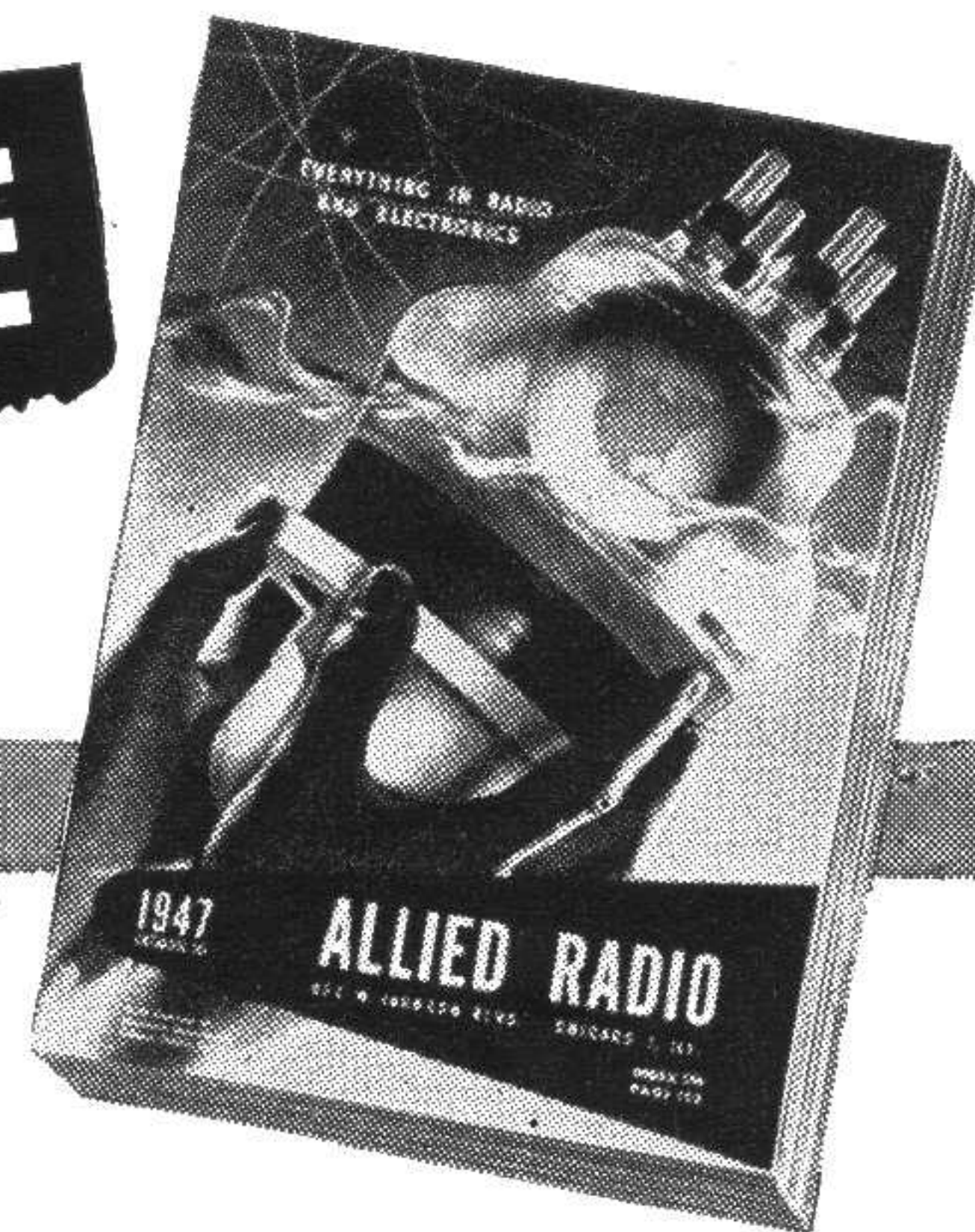
	Cents	
PORTUGAL	(15)	CT1
PORTUGUESE GUINEA	(25)	CR5
PUERTO RICO	(05)	KP4
REUNION I.	(25)	FR8
ROUMANIA	(15)	YR
SAINT HELENA		ZD7
SAINT KITTS	(10)	VP2
SAINT LUCIA	(10)	VP2
SAINT VINCENT	(10)	VP2
SALVADOR	(10)	YS
SAMOA (U.S.)		KS6
SAMOA (Western)		ZM
SARAWAK	(25)	VS5
SAUDI ARABIA (Hedjaz & Nejd)	(25)	HZ
SCOTLAND	(15)	GM
SEYCHELLES		VQ9
SIAM	(25)	HS
SIERRA LEONE	(25)	ZD1
SIKKIM		AC3
SOCOTRA ISLAND	(25)	VS9
SOLOMON IS.		VR4
SOMALILAND (British)	(25)	VQ6
SOMALILAND (French)	(25)	FL8
SOUTH GEORGIA		VP8
SOUTH ORKNEY IS.		VP8
SOUTH SANDWICH IS.	(25)	VP8
SOUTH SHETLAND IS.		VP8
SOUTHERN RHODESIA	(25)	ZE
SOVIET UNION:	(15)	U
European Russian Socialist Federated Soviet Republic		UA1-3-4-6
Asiatic Russian S.F.S.R.		UA9-6
Ukraine		UB5
White Russian Soviet Socialist Republic		UC5
Azerbaijan		UD6
Georgia		UF6
Armenia		UG6
Turkoman		UH8
Uzbek		UI8
Tadzhik		UJ8
Kazakh		UL7
Kirghiz		UM8
Karelo-Finnish Republic		UN1
Moldavia		UO5
Lithuania		UP
Latvia		UQ
Estonia		UR
SPAIN	(15)	EA
STRAITS SETTIS	(25)	VS1
SUDAN		ST
SUMATRA	(25)	PK4
SURINAM	(10)	PZ
SWAN I.	(05)	KS4
SWEDEN	(15)	SM
SWITZERLAND	(15)	HB
SYRIA	(25)	AR
TAHITI		FO8
TANGANYIKA	(25)	VQ3
TANGIER ZONE	(15)	EK1
TASMANIA	(25)	VK7
TIBET		AC4
TIMOR I. (Port.)		CR10
TOBAGO	(10)	VP4
TOGOLAND (British)	(25)	ZD4
TOGOLAND (French)	(25)	FD8
TONGA (Friendly) IS.	(25)	VR5
TRANSJORDAN	(25)	ZC1
TRINIDAD	(10)	VP4
TRISTAN DA CUNHA		ZD9
TUNISIA	(15)	FT4
TURKEY	(15)	TA
TURKS & CAICOS IS.	(10)	VP5
UGANDA	(25)	VQ5
UNION OF SOUTH AFRICA	(25)	ZS
UNITED STATES	(5)	K, W
URUGUAY	(10)	CX
VENEZUELA	(10)	YV
VIRGIN IS.	(05)	KV4
WAKE IS.		KW6
WALES	(15)	GW
WINDWARD ISLANDS	(1)	VP2
YUGOSLAVIA	(15)	YT, YU
ZANZIBAR	(25)	VQ1



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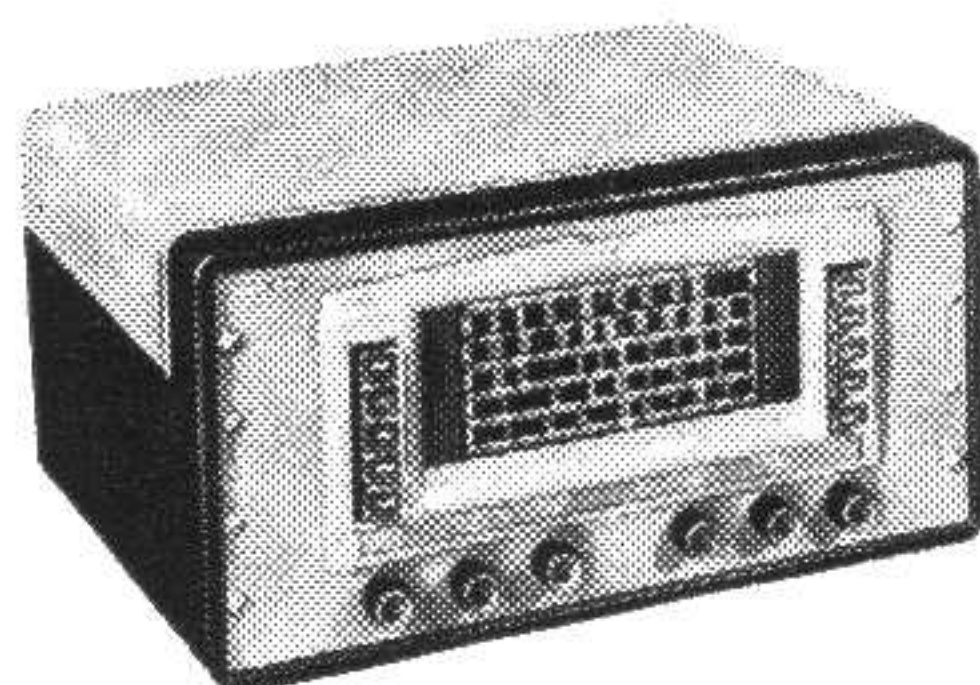
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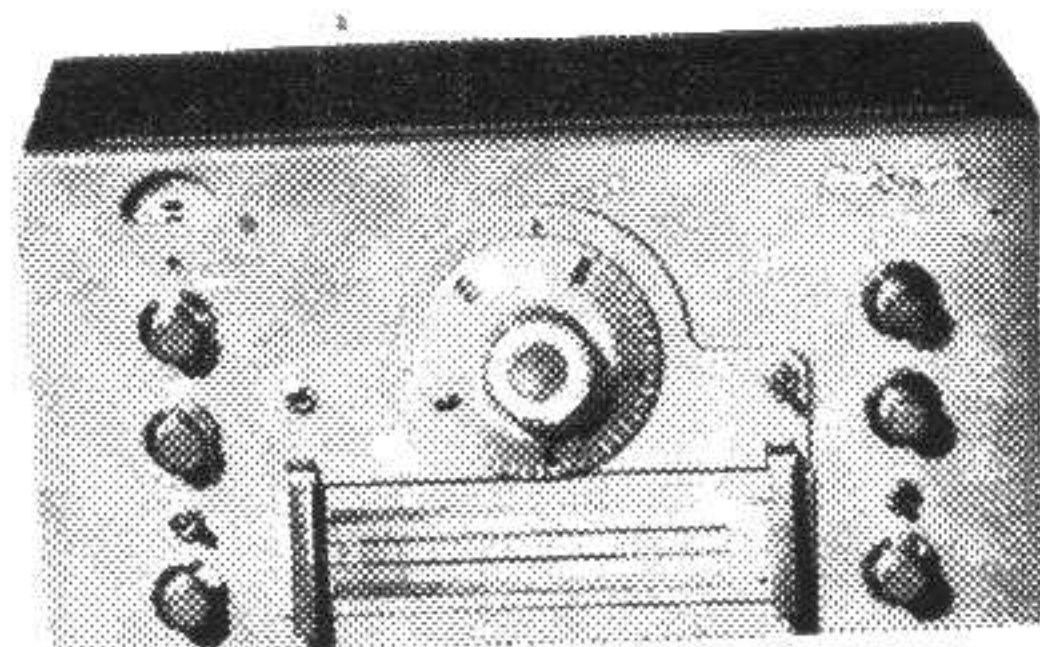
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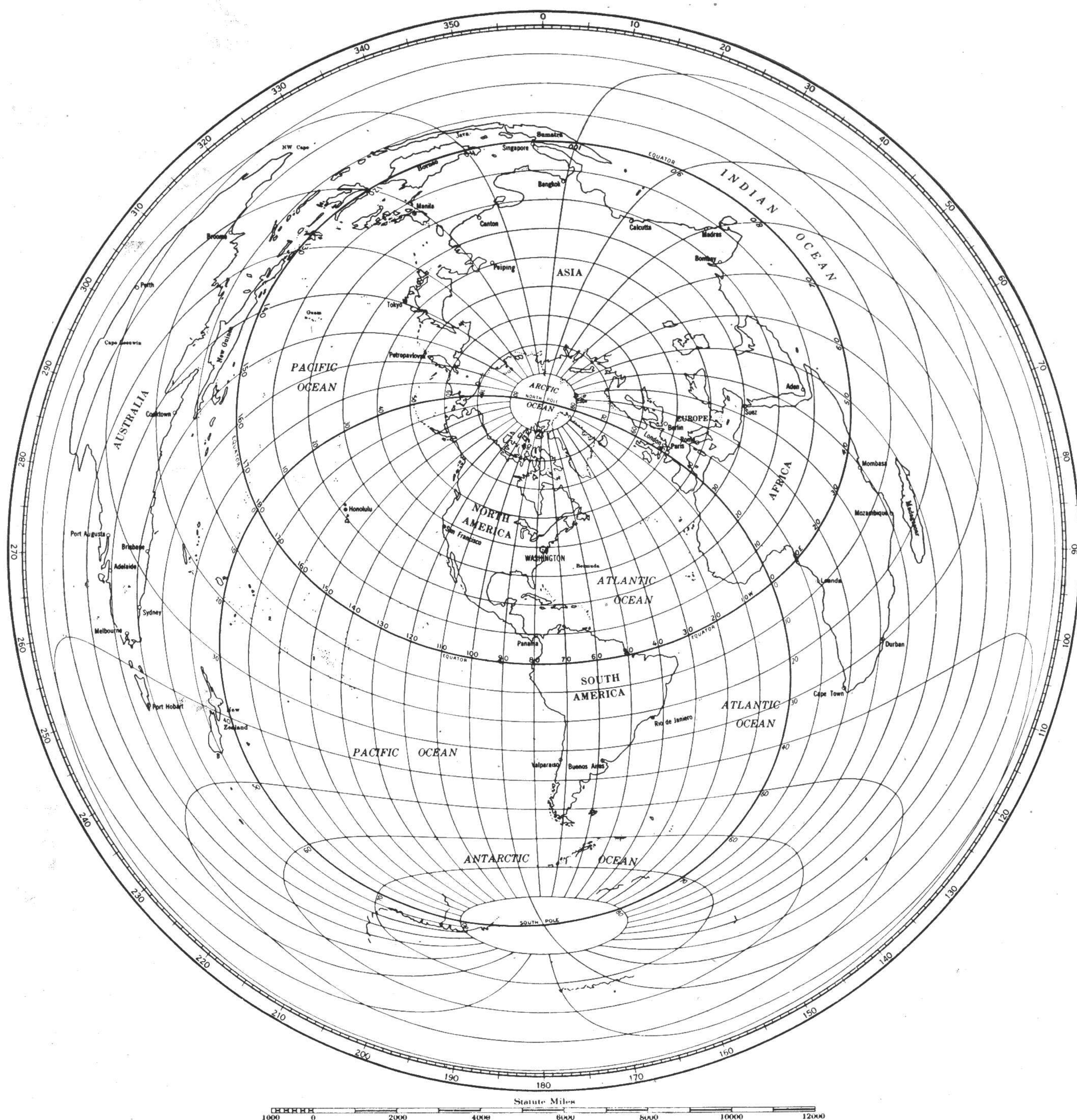
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# Great Circle Chart of the World Centered on WASHINGTON, D. C.



To find the great circle bearing of any point in the world from Washington, D. C., draw a straight line from the center and note the reading in degrees as indicated on the outer scale. The bar scale may be used to determine the approximate distance. This map was prepared by the Hydrographic Office of the U. S. Navy Department.



*Going places*  
(AGAIN)

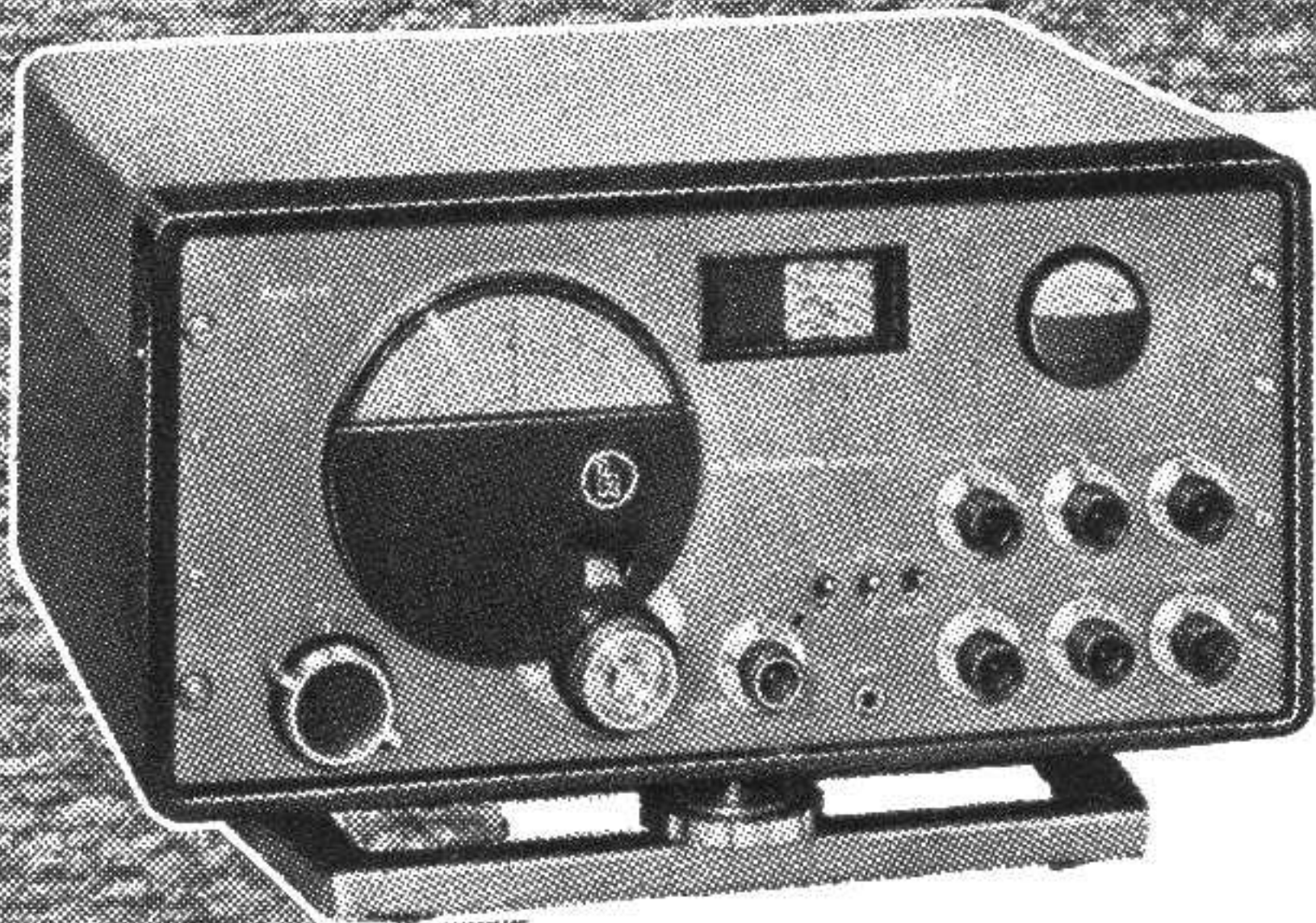
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Hallicrafters famous radio equipment, sold and distributed around the world before the war and used with superb effectiveness in every theater during the war is once again on the move. Watch for latest details of the Gatti-Hallicrafters mobile radio equipped expedition to the Mountains of the Moon in deepest Africa—a new and exciting test for the ingenuity of hams and the performance of Hallicrafters equipment.

**3**

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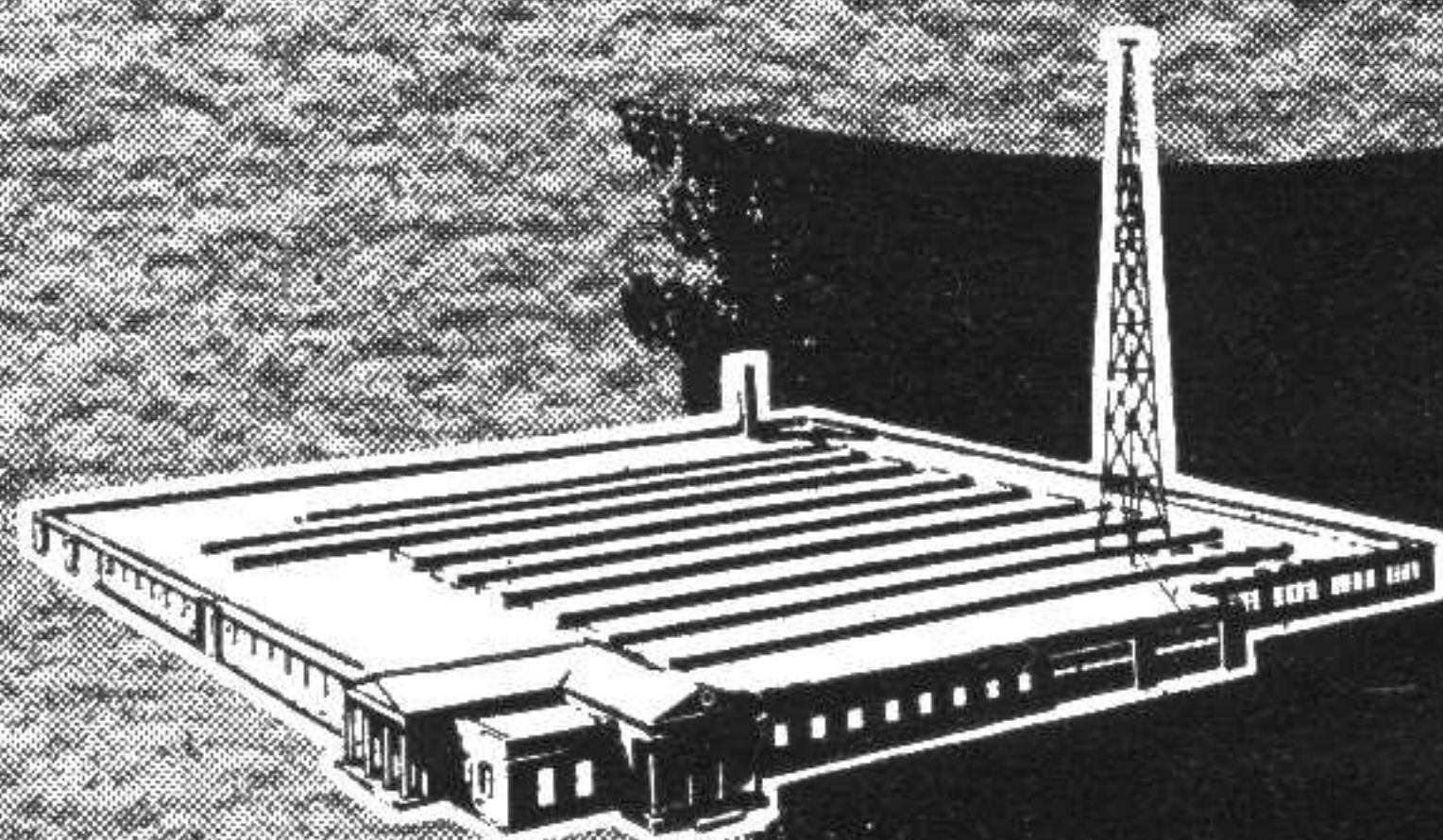
**Model SX-42** Described by hams who have operated it as "the first real postwar receiver." One of the finest CW receivers yet developed. Greatest continuous frequency coverage of any communications receiver—from 540 kc to 110 Mc, in six bands. FM-AM-CW. 15 tubes. Matching speakers available. **\$275<sup>00</sup>**



**Model S-40A** Function, beauty, unusual radio performance and reasonable price are all combined in this fine receiver. Overall frequency range from 540 kc to 43 Mc, in four bands. Nine tubes. Built-in dynamic speaker. Many circuit refinements never before available in medium price class. **\$89<sup>50</sup>**



**Model S-38** Overall frequency range from 540 kc to 32 Mc, in four bands. Self contained speaker. Compact and rugged, high performance at a low price. Makes an ideal standby receiver for hams. CW pitch control is adjustable from front panel. Automatic noise limiter. . . . . **\$47<sup>50</sup>**



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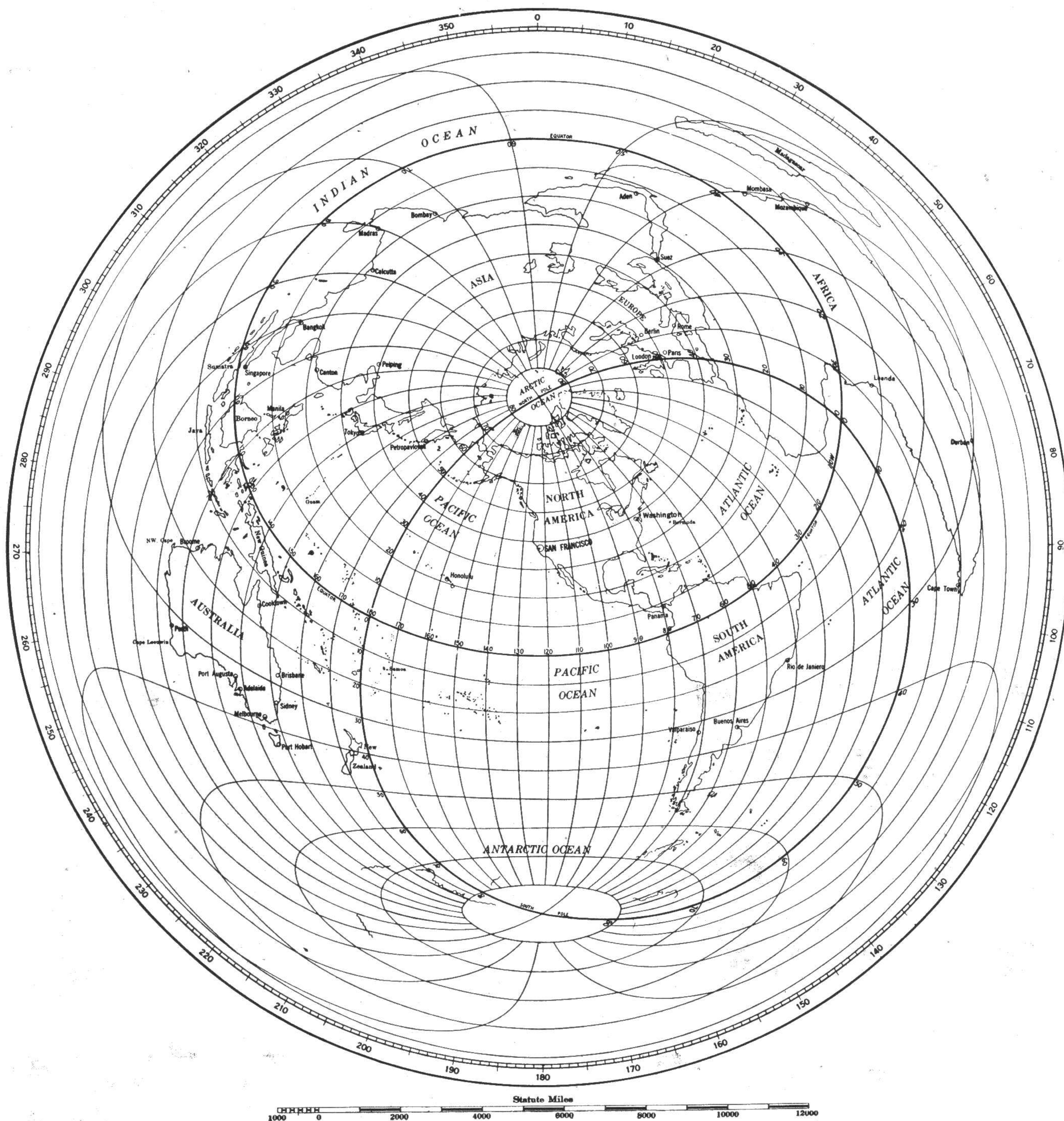
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*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



# Great Circle Chart of the World Centered on SAN FRANCISCO, CALIFORNIA



To find the great circle bearing of any point in the world from San Francisco draw a straight line from the center and note the reading in degrees as indicated on the outer scale. The bar scale may be used to determine the approximate distance. This map was prepared by the Hydrographic Office of the U. S. Navy Department.



GREAT CIRCLE BEARINGS IN THE UNITED STATES

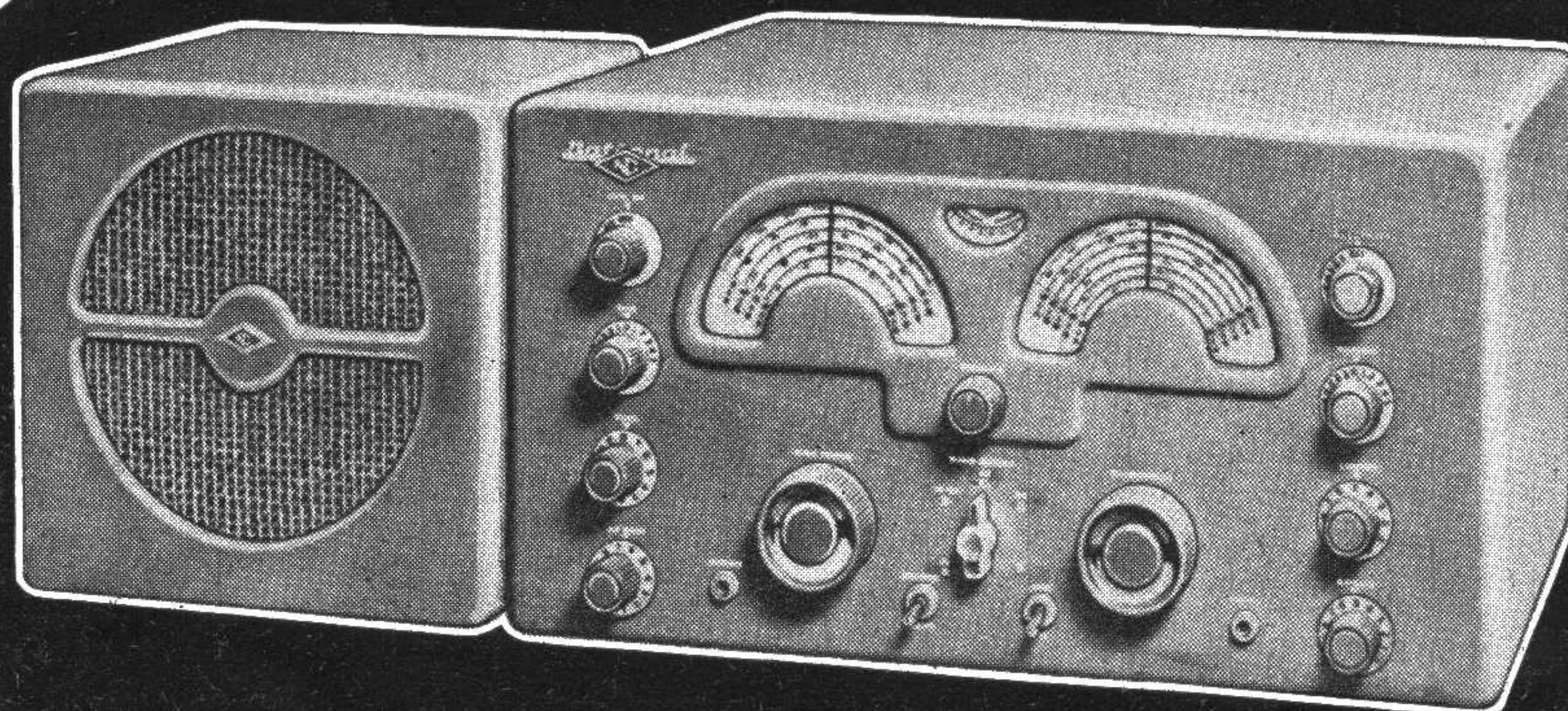
ATLANTA, GA.	264	322	47	24	25	301	343	15	86	269	297	320	7	271	310	251	347	145	306	281	281	347	154	345	331	321	234	48	64	48	278	27	318	296	289	308	48	84	WILMINGTON, N. C.		
BIRMINGHAM, ALA.	82		326	50	31	40	304	356	26	84	268	299	328	17	270	312	246	5	125	314	287	281	10	142	355	338	0	219	52	67	53	278	37	333	298	290	309	53	83	WASHINGTON, D. C.	
BISMARCK, N. D.	132	137	92	97	115	209	114	105	124	167	205	133	104	198	273	165	119	132	148	150	233	123	135	109	108	131	151	99	111	102	217	106	134	237	249	282	107	119	SAN FRANCISCO, CALIF.		
BOSTON, MASS.	236	241	291																																				SALT LAKE CITY, UTAH		
BUFFALO, N. Y.	208	217	291	92		206	273	264	237	192	241	269	268	261	252	290	231	243	191	258	237	267	231	184	274	286	225	219	118	160	134	261	199	248	276	276	293	159	174	ST. LOUIS, MO.	
CHARLESTON, W. VA.	208	223	307	61	24		287	309	359	174	251	282	293	345	260	300	238	293	180	279	251	274	270	174	316	311	245	223	66	108	71	269	31	275	286	282	301	80	143	PHILADELPHIA, PA.	
CHEYENNE, WYO.	108	112	26	76	91	81	81	103	140	187	83	79	189	319	143	90	113	101	119	241	95	119	76	62	104	128	81	92	83	219	84	98	268	262	303	87	100	80	100	NORFOLK, VA.	
CHICAGO, ILL.	161	175	302	82	78	125	272		93	144	221	266	268	80	242	293	210	151	155	245	208	262	157	156	350	308	173	190	91	116	97	254	101	212	274	272	295	106	131	NEW YORK, N. Y.	
CLEVELAND, OHIO	197	209	297	80	55	179	277	277		176	240	272	275	310	252	293	228	245	180	261	235	268	226	175	290	296	219	214	95	136	105	262	127	250	278	277	296	124	156	MINNEAPOLIS, MINN.	
COLUMBIA, S. C.	268	267	317	41	10	354	299	329	356		270	295	311	350	271	308	256	326	189	300	279	282	320	174	331	323	297	246	39	53	37	279	7	305	295	290	307	33	85	MILWAUKEE, WIS.	
DALLAS, TEXAS	81	82	349	57	49	61	325	36	50	80		319	15	45	266	325	157	47	97	15	61	280	55	112	32	11	65	115	60	71	61	277	55	40	308	291	315	63	80	MIAMI, FLORIDA	
DENVER, COLORADO	103	107	22	73	72	87	6	75	77	99	134		74	74	189	325	138	84	109	91	112	246	90	116	70	55	98	124	78	88	80	224	80	91	283	267	308	83	96	LOUISVILLE, KY.	
DES MOINES, IOWA	134	144	318	80	78	105	271	84	87	123	197	262		81	231	297	187	105	135	197	171	257	116	141	69	5	133	165	87	104	91	247	92	137	273	270	296	97	115	LOS ANGELES, CALIF.	
DETROIT, MICH.	188	200	295	86	79	164	273	263	129	168	233	268	268		248	291	222	224	174	254	227	265	208	171	282	292	206	207	100	133	109	258	128	238	275	274	294	124	151	LITTLE ROCK, ARK.	
EL PASO, TEXAS	77	78	14	58	54	64	8	50	56	76	79	8	42	53		345	98	57	86	48	71	285	62	97	46	33	68	92	61	69	62	290	59	57	335	298	327	64	75	KANSAS CITY, MO.	
HELENA, MONTANA	112	116	85	84	88	100	133	97	93	108	134	141	105	92	162		136	101	115	115	122	203	105	119	94	91	111	127	89	98	92	180	94	109	179	224	283	95	104	JACKSONVILLE, FLA.	
HOUSTON, TEXAS	64	60	348	50	40	49	329	25	39	67	338	325	6	34	285	327		34	84	3	26	288	40	103	22	5	46	86	52	60	53	289	45	24	314	297	319	5	68	INDIANAPOLIS, IND.	
INDIANAPOLIS, IND.	166	185	308	72	58	110	281	332	62	143	234	276	290	41	250	298	220		157	267	226	267	168	158	338	316	188	199	80	107	85	261	80	251	281	277	298	94	127	JACKSONVILLE, FLA.	
JACKSONVILLE, FLA.	327	309	324	33	9	1	308	339	0	8	286	304	323	355	282	314	273	340		314	300	288	338	163	341	332	326	271	29	34	28	287	8	323	303	295	312	23	39	KANSAS CITY, MO.	
KANSAS CITY, MO.	120	129	332	72	67	90	288	60	73	111	196	278	15	66	236	306	184	82	126		157	262	95	134	50	9	113	157	78	93	81	253	79	97	282	275	302	85	105	LITTLE ROCK, ARK.	
LITTLE ROCK, ARK.	97	104	335	59	48	65	307	26	48	92	243	300	352	41	260	315	208	43	114	338		276	55	128	21	356	71	158	62	76	64	271	56	22	297	286	309	67	89	LOS ANGELES, CALIF.	
LOS ANGELES, CALIF.	81	82	41	62	61	70	52	62	65	79	88	57	60	62	100	19	96	67	87	87		81		70	94	59	52	76	92	65	71	66	95	67	69	35	319	348	68	78	LOUISVILLE, KY.
LOUISVILLE, KY.	166	190	313	66	47	87	287	339	43	137	242	282	301	26	256	302	227	348	156	280	239	271		158	342	322	202	205	71	98	75	266	63	278	285	281	301	82	120	MIAMI, FLORIDA	
MIAMI, FLORIDA	337	326	329	22	3	355	313	342	356	355	302	310	329	353	291	318	290	342	345	321	315	293	341		342	335	334	298	18	16	15	293	1	330	308	299	315	11	13	MILWAUKEE, WIS.	
MILWAUKEE, WIS.	162	175	297	87	88	132	267	170	107	147	218	261	253	99	239	290	207	157	156	235	204	259	160	157		298	172	188	98	121	103	251	111	203	271	270	293	113	135	MINNEAPOLIS, MINN.	
MINNEAPOLIS, MINN.	145	154	291	91	96	123	248	125	108	135	193	242	184	105	227	283	186	132	144	189	175	248	137	146	114		148	169	99	116	104	237	110	159	259	261	287	111	127	NASHVILLE, TENN.	
NASHVILLE, TENN.	140	180	320	59	40	61	295	354	36	114	251	290	318	24	261	307	231	8	142	298	254	275	22	150	353	333		205	63	83	65	271	50	313	291	285	305	68	103	NEW ORLEANS, LA.	
NEW ORLEANS, LA.	50	37	337	46	32	38	318	9	28	60	299	313	347	22	283	321	270	17	86	339	339	288	22	114	7	351	23		46	56	47	287	35	359	308	296	315	47	64	NEW YORK, N. Y.	
NEW YORK, N. Y.	233	240	296	54	303	251	281	281	280	223	255	278	280	286	262	294	244	269	213	271	253	274	259	202	287	293	251	237		205	229	269	269	266	283	282	297	235	208	NORFOLK, VA.	
NORFOLK, VA.	249	253	306	35	342	291	290	303	319	236	264	286	295	318	288	301	253	294	217	285	267	279	284	198	308	307	269	244	25	16	274	322	284	289	286	302	343	208	PHILADELPHIA, PA.		
PHILADELPHIA, PA.	233	240	298	52	317	255	283	285	289	221	255	279	283	294	263	296	246	273	212	273	255	275	263	199	292	296	252	235	49	197		270	279	269	284	282	298	235	203	PHOENIX, ARIZONA	
PHOENIX, ARIZONA	80	83	29	61	59	69	35	58	62	79	89	40	55	59	108	0	100	64	89	62	80	277	70	97	55	45	74	93	64	72	66	64	66	1	300	334	68	79	PITTSBURGH, PA.		
PITTSBURGH, PA.	210	221	300	72	18	213	280	286	308	188	246	276	281	310	257	295	235	264	189	268	244	271	246	181	296	299	234	222	85	140	96	265		261	281	279	297	123	165	ST. LOUIS, MO.	
ST. LOUIS, MO.	134	150	320	70	60	90	287	30	63	119	224	280	319	53	248	303	207	68	137	280	204	267	94	143	20	342	130	179	75	95	79	260	74		284	278	301	84	110	SALT LAKE CITY, UTAH	
SALT LAKE CITY, UTAH	99	101	50	73	74	86	83	79	78	95	118	98	80	76	152	359	123	84	103	91	104	220	88	109	75	67	95	114	78	86	80	181	80	90		254	315	83	92	SAN FRANCISCO, CALIF.	
SAN FRANCISCO, CALIF.	86	86	54	66	67	75	70	70	83	96	75	70	68	109	39	101	73	90	77	88	136	77	96	67	67	62	81	97	69	76	71	114	71	77	66		1	73	81	SEATTLE, WASHINGTON	
SEATTLE, WASHINGTON	103	105	87	81	84	94	111	92	89	100	118	116	97	88	136	96	120	95	105	103	109	165	97	109	90	88	102	114	85	92	87	147	89	100	128	181		90	97	WASHINGTON, D. C.	
WASHINGTON, D. C.	233	240	302	52	342	263	285	293	307	215	256	281	287	308	263	298	245	280	205	277	257	275	268	192	300	302	254	235	53	163	53	270	305	273	285	283	300		189	WILMINGTON, N. C.	
WILMINGTON, N. C.	267	267	313	32	355	325	297	318	339	267	270	293	306	335	274	307	258	313	222	296	278	283	305	194	322	317	289	251	25	27	21	278	3								



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- Front-of-panel trimmer matches any antenna to receiver.

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- Modern gray enamel cabinet and styling.

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